starting points in mathematics 5

Workbook

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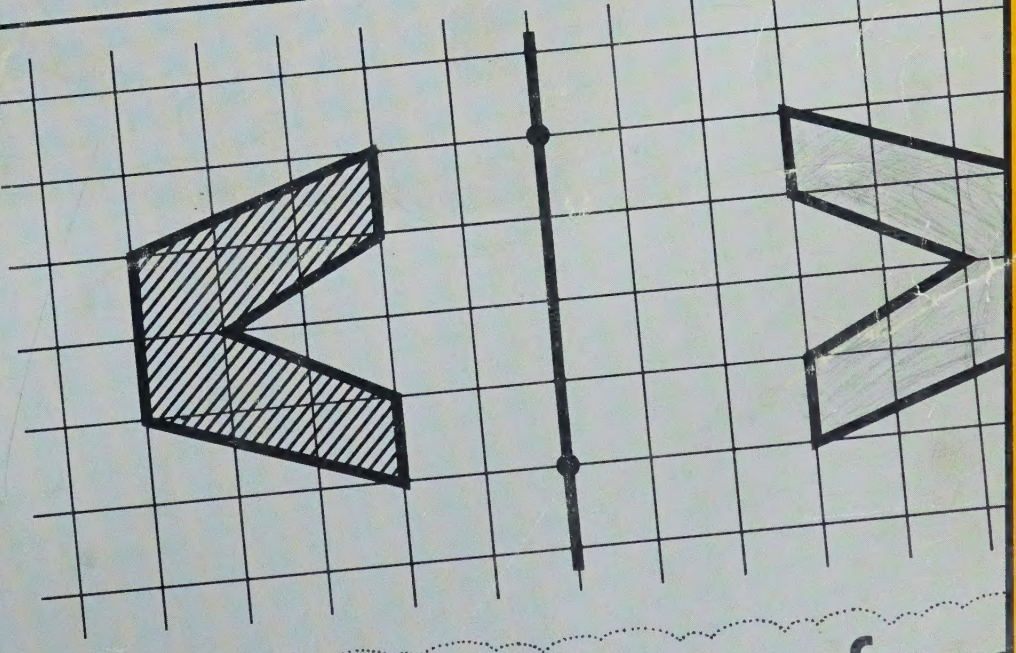

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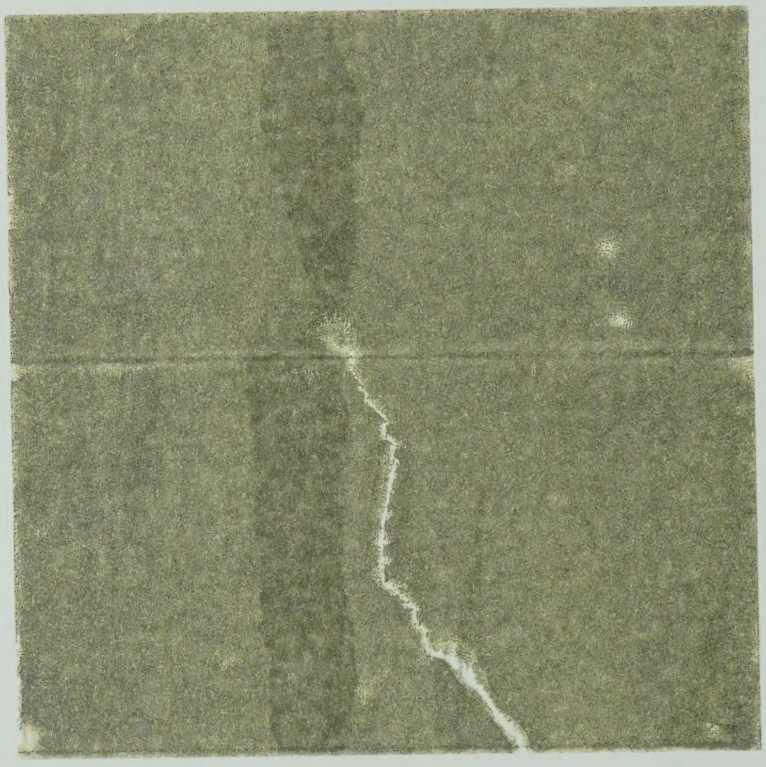

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Workbook for

starting points in mathematics

Level 5

GINN AND COMPANY
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NAME

SPM5/U1/4-5

Numbers to 999 999

Write in standard form.

1. four hundred eighty thousand 480 000	2. eighty thousand four hundred
3. 3 ten thousands 2 thousands 32 000	4. 5 ten thousands 2 tens
5. 60 000 + 8 000 + 200 68 200	6. 500 000 + 10 000 + 300 + 20

7. seventy-five thousand
8. one hundred three thousand sixty
9. 9 ten thousands 9 hundreds
10. 3 hundred thousands 8 ten thousands
11. 300 000 + 5 000 + 4
12. 70 000 + 200 + 10

Write in expanded form.

13. 50 403
14. 450 709

What does each 5 mean?

15. 75 121
16. 529 342
17. 156 360

SPM5/U1/6-7

Numbers to 999 999 999

Write in standard form.

1. three hundred one million 301 000 000	2. ninety million five thousand
3. 2 ten millions 6 millions 26 000 000	4. 1 ten million 4 ten thousands
5. 30 000 000 + 900 000 30 900 000	6. 5 000 000 + 80 000

7. sixty-eight million
8. five million two hundred thousand
9. 3 millions 7 ten thousands
10. 2 hundred millions 5 ten millions
11. 400 000 000 + 600 000
12. 50 000 000 + 7 000 000 + 8 000

Write in expanded form.

13. 70 450 000
14. 2 030 600

What does each 2 mean?

15. 200 384 000
16. 82 435 000
17. 125 005 800

NAME

SPM5/U1-/8-9

Comparing and Ordering Numbers

Write > or < to make a true statement.

1. 12 452 ≥ 11 799
2. 142 850 ___ 148 250
3. 25 500 ___ 25 999

List from least to greatest.

4. 62 712, 67 821, 62 791, 62 197
   62 197, 62 712, 62 791, 67 821
5. 12 345, 13 572, 13 532, 13 525

Write > or < to make a true statement.

6. 53 214 ___ 53 624
7. 33 456 ___ 34 120
8. 72 766 ___ 72 754
9. 123 567 ___ 125 367
10. 224 123 ___ 214 123
11. 32 132 ___ 33 122

List from least to greatest.

12. 38 413, 31 183, 31 148, 38 143
13. 213 232, 223 231, 232 312, 212 233
14. 81 181, 18 118, 81 811, 811 118
15. 115 212, 121 252, 112 152, 115 122

SPM5/U1/10-11

Rounding

Round to the nearest

	hundred	thousand	ten thousand	hundred thousand
1. 729 354	729 400	729 000	730 000	700 000
2. 88 349				
3. 146 676				
4. 237 768				
5. 66 639				
6. 296 473				
7. 53 829				
8. 336 500				
9. 870 318				
10. 20 793				

NAME _____

Practice

What does each 9 mean?

1. 149 752
2. 966 802
3. 195 000

Write each in standard form.

4. 6 ten thousands 2 hundreds
5. four hundred two thousand
6. 700 000 + 8 000 + 60 + 8
7. 50 000 + 300 + 1
8. four hundred thousand two
9. four thousand two hundred

Write each in expanded form.

10. 150 025
11. 73 306

Use >, <, or = to make a true statement.

12. 52 637 ___ 52 367
13. 108 294 ___ 108 294
14. 473 733 ___ 477 373
15. 95 026 ___ 95 206

List from least to greatest.

16. 13 463, 13 643, 14 364, 13 436
17. 208 682, 280 286, 208 628, 208 626

Round to the nearest thousand.

18. 30 792
19. 47 500
20. 79 740

Round to the nearest hundred thousand.

21. 245 396
22. 392 175
23. 608 800

What does each 4 mean?

24. 14 387 201
25. 143 872 010

Write each in standard form.

26. twenty-three million eight hundred five thousand forty-eight
27. three hundred sixty million twenty-three thousand seven hundred

Use >, <, or = to make a true statement.

28. 9 260 300 ___ 9 206 308
29. 473 532 868 ___ 475 352 868

List from least to greatest.

30. 13 473 747, 3 747 374, 13 473 473, 13 447 374

Round to the nearest million.

31. 84 703 159
32. 7 195 376

NAME _____

Skills Review -- Addition Facts

Add.

1. 5 + 2	2. 8 + 7	3. 3 + 9	4. 7 + 4	5. 5 + 6
6. 8 + 6	7. 2 + 9	8. 6 + 9	9. 3 + 6	10. 4 + 3
11. 6 + 4	12. 5 + 7	13. 7 + 9	14. 4 + 4	15. 8 + 2

16. 9 + 8	17. 2 + 7	18. 5 + 5	19. 8 + 1
20. 5 + 8	21. 8 + 4	22. 4 + 9	23. 1 + 5
24. 9 + 9	25. 5 + 9	26. 7 + 0	27. 6 + 6

Skills Review -- Subtraction Facts

Subtract.

1. 16 − 7	2. 13 − 6	3. 13 − 9	4. 11 − 3	5. 6 − 2
6. 8 − 3	7. 14 − 8	8. 12 − 4	9. 9 − 1	10. 3 − 0
11. 12 − 5	12. 10 − 2	13. 15 − 7	14. 12 − 6	15. 9 − 4

16. 11 − 9	17. 14 − 7	18. 8 − 4	19. 14 − 5
20. 9 − 2	21. 7 − 1	22. 17 − 8	23. 12 − 9
24. 11 − 5	25. 9 − 6	26. 10 − 6	27. 15 − 6

NAME _____

Skills Review -- Multiplication Facts

Multiply.

1. 6 × 8	2. 9 × 3	3. 4 × 6	4. 4 × 0	5. 4 × 8
6. 5 × 7	7. 7 × 9	8. 7 × 8	9. 7 × 7	10. 2 × 2
11. 3 × 6	12. 9 × 4	13. 5 × 2	14. 5 × 8	15. 7 × 3

16. 4 x 3	17. 9 x 9	18. 9 x 8	19. 2 x 8
20. 3 x 8	21. 6 x 5	22. 1 x 4	23. 7 x 6
24. 5 x 5	25. 4 x 7	26. 8 x 8	27. 1 x 9

Skills Review -- Mixed Operations

Perform the indicated operation.

1. 9 + 1	2. 10 − 3	3. 9 x 2	4. 6 x 6	5. 8 − 6
6. 3 + 5	7. 17 − 9	8. 6 + 6	9. 9 x 5	10. 15 − 8
11. 2 + 6	12. 7 x 1	13. 11 − 7	14. 8 + 8	15. 9 x 6

16. 0 x 5	17. 12 − 7	18. 12 − 3	19. 4 + 7
20. 9 + 2	21. 2 x 7	22. 8 x 3	23. 5 + 4
24. 13 − 5	25. 7 + 6	26. 18 − 9	27. 8 x 5

NAME

SPM5/U2/16

Basic Addition Facts

Write the six sums for each row.

1.	8 + 5 13	5 + 4	8 + 3	9 + 7	5 + 8	7 + 6
2.	4 + 7	7 + 5	6 + 5	3 + 8	2 + 6	6 + 4
3.	7 + 7	8 + 8	5 + 2	6 + 6	9 + 5	9 + 4
4.	5 + 6	7 + 3	4 + 5	3 + 1	7 + 8	6 + 0
5.	8 + 0	8 + 7	6 + 9	2 + 8	9 + 9	5 + 4
6.	7 + 1	4 + 9	5 + 7	2 + 2	4 + 6	6 + 2
7.	4 + 4	7 + 4	8 + 6	5 + 0	8 + 4	9 + 8
8.	6 + 7	5 + 9	8 + 9	2 + 3	7 + 2	9 + 3
9.	3 + 9	8 + 1	2 + 7	3 + 4	3 + 7	6 + 8
10.	2 + 9	4 + 8	5 + 5	7 + 9	9 + 2	9 + 6

SPM5/U2/17

Addition with No Regrouping

Add.

1. 31 650 45 029 76 679	2. 7130 2167 7	3. 22 139 34 750	4. 2385 + 6410	
5. 6325 2102	6. 51 37	7. 42 313 12 302	8. 482 116	9. 1703 4125
10. 424 453	11. 6024 3374	12. 10 562 68 137	13. 25 70	14. 81 503 2363

15. 750 243 + 48 350 16. 1 704 + 63 012 17. 525 701 + 64 248

NAME

Adding Four-Digit Numbers with Regrouping

Add.

1. 1589 + 7943 = 9532	2. 1385 + 2588 = 3	3. 6479 + 2634	4. 5529 + 681

5. 4757 + 1429	6. 6265 + 471	7. 2649 + 508	8. 2836 + 5924	9. 3543 + 1579
10. 3279 + 359	11. 4532 + 2476	12. 5642 + 3689	13. 7738 + 826	14. 4679 + 3467

15. 8056 + 978 16. 2983 + 2254 17. 1891 + 363

Practice

Solve. Show your work.

1. 281 people attended the play Friday. 413 people attended the play Saturday. How many attended in all?

2. Two elementary schools enrolled 329 and 268 students. How many were there enrolled in all?

3. 3875 persons signed a petition for the project. 2966 signed a petition against the project. In all, how many signed a petition?

4. The moving van picked up a load of 3578 kg at the Guerra's apartment and a load of4558 kg at the Moro's apartment. How heavy were the two loads?

5. The Barrows drove 746 km in Alberta and 518 km in Saskatchewan during their vacation. How far did they drive in the two provinces?

6. The park officers counted 682 buffalo in the east herd and 719 in the west herd. How many buffalo are there in all?

NAME

SPM5/U2/20-21

Addition with Regrouping

Add.

1. 1 1 1 26 739 45 438 72 177	2. 1 1 789 30 763 11 254 6	3. 39 658 52 672	4. 33 921 849 9 207
5. 18 167 6 229 25 343	6. 47 792 65 864	7. 35 068 6 497	8. 36 485 16 763
9. 62 698 53 441	10. 4 231 39 679 857	11. 4849 1321 2923	12. 594 2820 814

13. 58 928 + 73 657

14. 75 691 + 50 423 + 61 745

SPM5/U2/24-25

Estimating the Sum

Round and add to estimate each sum. Then find the exact sum.

Estimate first. 1 1 2 1 1. 6741 7 000 25 092 25 000 13 578 14 000 45 411 46 000 Then add.	Estimate first. 2. 2748 3000 1937 2000 2467 Then add.	3. 28 208 32 708 16 182	4. 24 720 26 364
5. 4586 9220 2367	6. 9 798 42 330 13 425	7. 4025 6771 4100	8. 7678 3589 2134 6456

NAME _____

Practice

Add.

1. 21 042 + 6 791

2. 6872 + 1028

3. $14.96 + 37.51

4. $831 + 419

5. 17 832 + 50 946

6. 3596 + 917 + 3956

7. 463 + 880 + 78

8. 26 868 + 29 593 + 89 475

9. 4 829 + 17 437 + 657

10. $ 5.27 + 46.47 + 9.48

11. 4213 + 861

12. $37.85 + $23.16

13. 47 102 + 8 639

14. $11.15 + $73.46

15. 874 + 296

16. 47 508 + 552 + 6 461

Solve. Show your work.

17. Billy's 3 books have 1134 pages. Bo's 4 books have 891 pages. What is the total number of pages in their books?

18. The Kleins went shopping. Mrs. Klein spent $37.48. Mr. Klein spent $48.67. Together, how much did they spend?

19. 7519 people were in the stadium at game time. Another 1351 arrived after the game began. What was the total attendance?

20. Advance ticket sales were worth $47 381. Ticket sales on the day of the game were worth $13 496. What was the total of the ticket sales?

21. When the Hamilton football team played at Toronto, 45 875 fans attended. 28 850 fans came to the Toronto game at Hamilton. What was the total attendance for both games?

22. Pierce spent $7.48 for a first-aid kit and $4.75 for extra bandages. What did these supplies cost in all?

NAME

SPM5/U2/27

Addition and Subtraction Families

Write the complete families.

1. 8 + 6 = 14 6 + 8 = 14 14 − 6 = 8 14 − 8 = 6	2. 12 − 3 = 9 12 − 9 = 3	3. 5 + 6 = 11	4. 12 − 7 = 5

5. 7 + 7 = 14 6. 6 + 7 = 13 7. 14 − 5 = 9 8. 11 − 9 = 2

9. 9 + 6 = 15 10. 5 + 5 = 10 11. 7 + 8 = 15 12. 13 − 8 = 5

SPM5/U2/28

Subtraction With No Regrouping

Subtract.

1. 9497 6273 3224	2. 6386 6254 2	3. 8456 2053	4. 7503 − 7201

5. 9435 1124	6. 3786 3541	7. 7864 4263	8. 8525 8322	9. 5587 3575
10. 1878 1163	11. 7874 1644	12. 6759 6216	13. 9638 1316	14. 2985 2382

15. 9596 − 5322 16. 3967 − 3647 17. 7829 − 7518

NAME

Subtraction With Regrouping

Subtract.

1. 8432 976 7456	2. 7765 2968 7	3. 9730 5926	4. 418 − 342

5. 7219 4792	6. 821 568	7. 4482 3229	8. 619 234	9. 7258 3431
10. 6081 1445	11. 9743 6178	12. 8928 3754	13. 61 140 52 567	14. 7480 5813

15. 9286 − 7863

16. 1854 − 879

17. 8317 − 6327

Practice

Solve. Show your work.

1. 7349 passengers passed through the Edmonton airport this week. 5894 passed through last week. How many more passed through the Edmonton airport this week?

2. The stadium office had requests for 42 585 tickets to the championship football game. The stadium seats only 38 600. How many ticket requests was the office unable to honor?

3. The Goodfellow A Mine produced 83 470 t of coal this month. The Goodfellow B Mine produced 75 800 t. What was the total produced by the two Goodfellow mines?

4. Vista Campground opened this week on Hill Road. Last week a traffic count showed 672 cars on the road. This week the count was 843 cars. How many more cars used the road this week?

NAME

SPM5/U2/32-33

Subtraction, Regrouping with Zeros

Subtract.

1. 2991 10 3000 1152 1848	2. 19 13 8203 2429 4	3. 5040 2854	4. 9000 − 5678

5. 8000 3257	6. 70 703 46 235	7. 5004 1457	8. 20 907 11 265	9. 6000 4461
10. 40 090 35 329	11. 60 008 53 486	12. 20 000 13 187	13. 96 000 52 687	14. 7008 3221

15. 20 403 − 9826 16. 80 000 − 63 075 17. 58 000 − 49 813

SPM5/U2/36-37

Estimating the Difference

Round and subtract to estimate each difference.
Then find the exact difference.

17 Estimate first. 7715510 1. 88500 90 000 49 948 50 000 38 612 40 000 Then subtract.	Estimate first. 2. 5587 6000 3799 4000 Then subtract.	3. 32 086 9 367	4. 4682 2668

5. 78 984 36 157	6. 5383 4279	7. 9723 3518	8. 77 678 51 489
9. 32 097 14 235	10. 4982 3884	11. 78 650 69 792	12. 75 966 56 282

NAME _____

Practice

Perform the indicated operation.

1. 8 + 9	**2.** 7362 − 1043	**3.** 402 − 197	**4.** 235 + 461	**5.** $42.38 + 50.45
6. 16 −9	**7.** 87 243 − 49 638	**8.** $274.05 + 398.61	**9.** 217 + 90	**10.** 4821 + 729

11. $18.63 + $7.47 **12.** 8493 − 736 **13.** 20 316 + 59 874

14. $20.04 − $16.95 **15.** 10 000 − 5681 **16.** $250.00 − $189.98

Solve. Show your work.

17. Mount Everest is 8848 m high. Mount Logan is 6050 m high. How much higher is Mount Everest?

18. Nova Scotia has 55 490 km^2. New Brunswick has 73 437 km^2. What is their total area?

19. The area of British Columbia is 948 596 km^2. Alberta has 661 185 km^2. How much larger is British Columbia?

20. In the fund drive the fifth graders earned $113.86 the first week and $97.29 the second. How much more did they earn the first week?

21. A mountain climber reached a point 1865 m below the peak on the first day. The climber was 1070 m below the peak after the second day. ·How far upwards did the climber go on the second day?

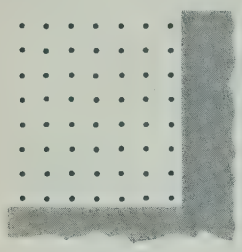
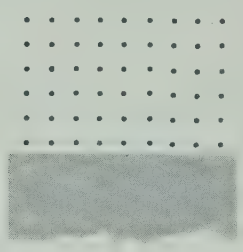
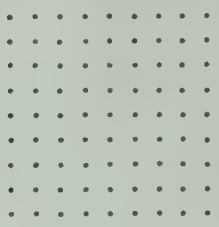
22. Publishing a newspaper cost the sixth-grade class $27.86 the first time and $14.09 the second time. What did the two editions cost in all?

NAME

SPM5/U3/42-43

Basic Facts

Multiply.

1. 8 x 7 56 	2. 6 x 9 	Cover as needed to help you find the products. 

3. 4 x 3	4. 5 x 6	5. 9 x 8	6. 8 x 4
7. 6 x 7	8. 7 x 5	9. 4 x 6	10. 9 x 5
11. 8 x 8	12. 7 x 3	13. 5 x 8	14. 7 x 7
15. 7 x 9	16. 9 x 9	17. 8 x 6	18. 5 x 5

SPM5/U3/44-45

Multiplying a Two-Digit Number by a One-Digit Number

Multiply.

2 1. 34 6 204	1 2. 93 4 2	3. 46 3	4. 8 x 59

5. 56 2	6. 74 5	7. 38 7	8. 85 3	9. 67 4
10. 48 8	11. 67 6	12. 99 2	13. 73 9	14. 59 5

15. 4 x 58 16. 8 x 63 17. 9 x 85 18. 7 x 76

NAME

SPM5/U3/46-47

Multiplying by a One-Digit Number

Multiply.

33 1. 467 5 2335	5 2. 258 7 6	3. 157 6	4. 4 x 6248

5. 98 6	6. 47 8	7. 79 7	8. 156 9	9. 219 5
10. 478 9	11. 509 8	12. 3579 2	13. 4096 6	14. 71 359 4

15. 7 x 1634 16. 8 x 386 17. 3 x 91 837

SPM5/U3/50-51

Multiplying by Multiples of 10, 100, and 1000

Multiply.

22 1. 157 400 62 800	1 2. 246 30 80	3. 109 70	4. 900 x 54

5. 78 50	6. 346 70	7. 976 200	8. 120 80	9. 357 600
10. 375 800	11. 725 70	12. 793 900	13. 498 60	14. 182 50

15. 3000 x 189 16. 2000 x 285 17. 4000 x 304

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 4283 \\ +\ 3759 \\ \hline \end{array}$

2. $\begin{array}{r} 7 \\ \times\ 5 \\ \hline \end{array}$

3. $\begin{array}{r} \$8.03 \\ -\ 5.38 \\ \hline \end{array}$

4. $\begin{array}{r} 249 \\ \times\ 3 \\ \hline \end{array}$

5. $\begin{array}{r} 42\,316 \\ -\ 9\,427 \\ \hline \end{array}$

6. $\begin{array}{r} 27 \\ \times\ 6 \\ \hline \end{array}$

7. $\begin{array}{r} 23\,874 \\ +\ 56\,109 \\ \hline \end{array}$

8. $\begin{array}{r} 2003 \\ -\ 425 \\ \hline \end{array}$

9. $\begin{array}{r} 3946 \\ \times\ 5 \\ \hline \end{array}$

10. $\begin{array}{r} \$18.73 \\ +\ 9.27 \\ \hline \end{array}$

11. 23 460 + 18 961

12. 6 x 2741

13. $11.75 - $5.03

14. 70 x 8

15. 600 x 491

16. 2437 + 816

17. 2491 - 127

18. 90 x 80

19. 20 x 1428

Solve. Show your work.

20. The Montreal Forum holds 18 350 people. What can the attendance be for a 3-game series there?

21. Mr. Gardner set out 7 rows of tomato plants with 19 plants in each row. How many plants did he set out?

22. 878 people filled the school auditorium for the meeting. Another 237 watched on television in the gym. Altogether, how many people saw the meeting?

23. For their holiday trip, the Leroi's paid $656 in advance reservations and another $728 during the trip. What was the total cost of their trip?

24. Some school buses hold 57 children. 7 of these buses brought full loads of children to the fair. How many children is this?

25. Mr. Travis decided to buy a jacket for $63.95 instead of a more expensive one selling for $72.50. How much did he save?

NAME

SPM5/U3/52-53

Multiplying a Two-Digit Number by a Two-Digit Number

Multiply. Change the order of the factors to check your work.

2 3 1. 53 27 27 53 371 81 1060 1350 1431 1431	4 2. 18 46 108	3. 49 62	4. 72 28
5. 17 73	6. 38 51	7. 46 97	8. 70 80
9. 63 24	10. 52 46	11. 46 87	12. 67 16

SPM5/U3/54-55

Multiplying by a Two-Digit Number

Multiply.

3 1 1. 263 54 1052 13150 14202	11 2. 479 62 958	3. 152 87	4. 81 x 67 x 41
5. 283 19	6. 475 35	7. 16 25	8. 263 66
9. 4449 48			
10. 78 x 25 x 29	11. 75 x 93 x 48	12. 63 x 60 x 45	

Use other paper for Exercises 10 - 12.

NAME

SPM5/U3/56-57

Multiplying by a Three-Digit Number

Multiply.

1. 272 296 1632 24480 54400 80512	2. 632 345 3160	3. 385 891	4. 57 x 843 x 91

5. 371
526

6. 447
713

7. 4268
914

8. 2004
562

9. 5234
197

10. 443 x 5038

11. 80 x 23 x 8358

12. 353 x 711

SPM5/U3/60

Estimating the Product

Round and multiply to estimate the product. Then find the exact product.

1. 346 28 2768 6920 9688	300 30 9000 Estimate, then multiply.	2. 563 37 600 40	3. 713 37	4. 57 x 284

5. 23
89

6. 638
44

7. 271
627

8. 8106
93

9. 67 x 612

10. 153 x 903

11. 78 x 4521

NAME _____

Practice

Perform the indicated operation.

1. 83 x 27

2. 27 041 − 9 273

3. 600 x 45

4. $15.24 + 4.83

5. 485 x 291

6. 3007 − 428

7. 113 086 + 98 753

8. 4231 x 80

9. $87.15 − 29.35

10. $2748 + 9602

11. 3000 x 17

12. $27 042 − $16 481

13. 7086 + 2430

14. 7 x 9 x 86

15. 82 095 − 14 615

16. 48 x 51 x 34

Solve. Show your work.

17. There are 60 s in a minute and 60 min in an hour. How many seconds are there in a 24-h day?

18. $838 worth of seats were sold for the play. It cost $475 to produce the play. How much profit was made?

19. The lunch crew prepares 1375 meals each work day. How many meals does it prepare in one year (250 work days)?

20. One post office reported handling 123 960 pieces of mail in August and 241 702 in September. What was its 2-month total?

21. Each of 47 boys carries 5 pieces of firewood. Each piece of firewood has a mass of 3 kg. What is the total mass of the wood carried?

22. The distance from Edmonton to Thunder Bay by train is 1953 km . It is 1887 km by train to Churchill. How much farther is it to Thunder Bay?

NAME

SPM5/U4/64-65

Collecting Information

Draw a survey chart you could use

1. to find out a favorite flavor of ice cream.

Complete the list.

What is your favorite flavor of ice cream?		Total
Vanilla		
chocolate		

2. to find out which kind of automobile people like to drive.

What kind of car do you like to drive?

3. Try some of the exercises on page 65 of your textbook again. Ask your teacher to help you select some.

SPM5/U4/66-67

Organizing Information

Paul asked, "What is your favorite subject in school?"
He made this chart.

What is your favorite subject?	Girls	Boys
Reading	𝍸 𝍸 |	|||
Language	|||	𝍸
Mathematics	𝍸	𝍸 ||
Science	𝍸 ||||	𝍸 |
Music	|||	||||
Art	𝍸	|||
Physical Education	||||	𝍸 |

Use Paul's chart to answer these questions.

1. How many boys like science best? 6
2. How many girls like art best?
3. How many students like mathematics best?

4. What is the favorite subject of the girls?
5. What is the favorite subject of the boys?
6. What is the favorite subject of the students?
7. How many girls were surveyed?
8. How many students were surveyed?

NAME

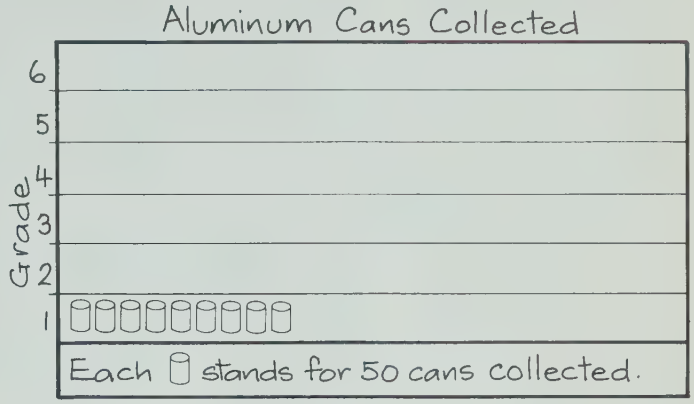
Pictographs and Bar Graphs

Complete the pictograph to show the following information.

The first line in each graph has been done.

Recycling Drive

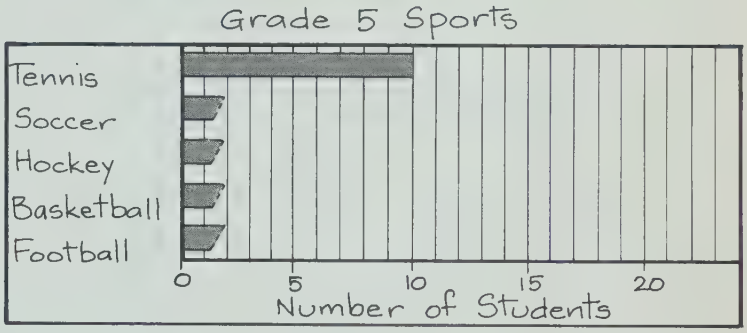
	Grade	Aluminum Cans Collected
1.	1	450
	2	400
	3	450
	4	400
	5	550
	6	500



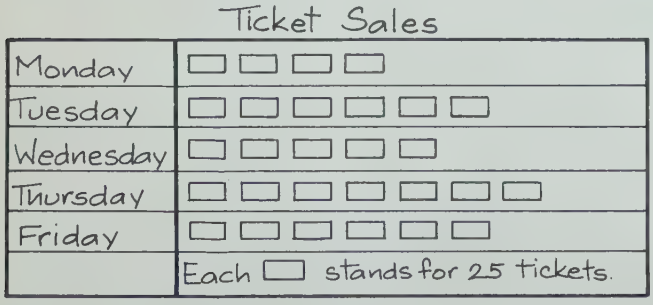
Complete the bar graph and show the following information.

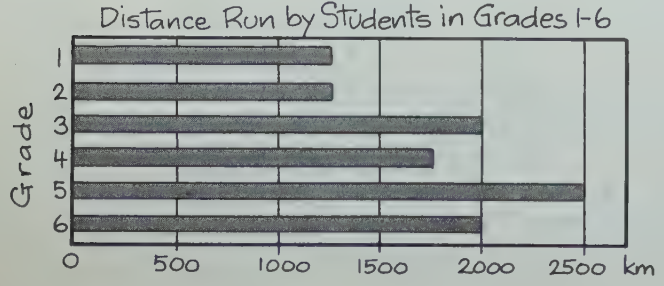
Grade 5 Sports

	Sport	Students
2.	Tennis	10
	Soccer	20
	Hockey	18
	Basketball	8
	Football	15



Use the following graphs to answer the questions.

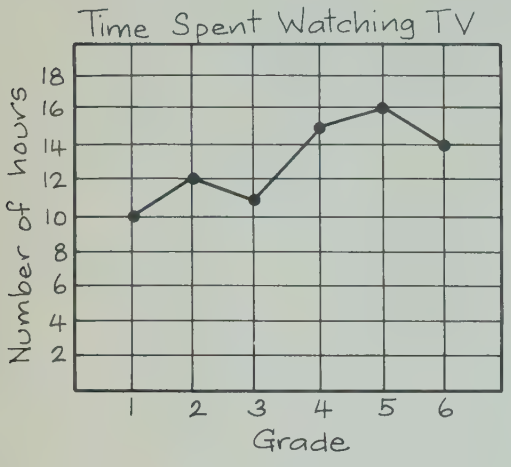




3. On which day were the most tickets sold?
4. On which day were the fewest tickets sold?
5. On which days were the same number of tickets sold?
6. How many more tickets were sold on Thursday than on Wednesday?
7. How many tickets were sold in all?
8. Which grade ran the greatest distance?
9. Which grades ran the same distance?
10. Which grade ran farther, Grade 3 or Grade 4? How much farther?

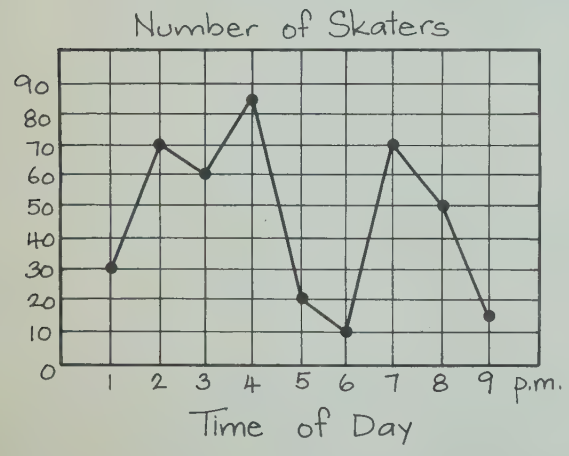
Reading Line Graphs

Harley made a survey on the time a student spends watching television each week. Use the graph to answer the questions.



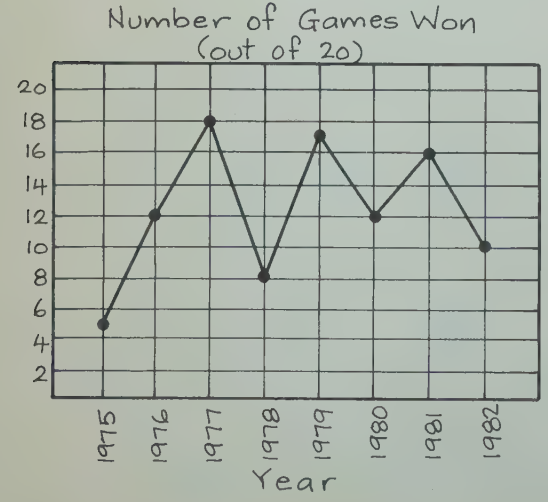
1. In which grade did a student spend the most time watching TV? Grade 5
2. Between which grades did the amount of time spent increase the most?
3. Between which grades did the amount of time decrease?
4. Between which grades did the amount of time change the least?
5. Was more time spent in Grade 4 or in Grade 6? How much more?

Joanna's line graph shows the number of skaters using a roller rink.



6. When was the rink in use by the fewest number of skaters?
7. Between which times did the number of skaters increase the most?
8. Between which times did the number of skaters decrease by the same amount?
9. Between which times did the number of skaters change the most?
10. At which times were the same number of skaters using the rink?

The basketball team plays 20 games each year.



11. In which year were the greatest number of games won?
12. Between which two years did the team's record improve the most?
13. Between which two years did the team's record change the most?
14. In which years did the team win the same number of games?
15. In which year did the team lose the most games? How many games did it lose that year?

NAME _____

Practice

This chart shows the ages of the club's members.

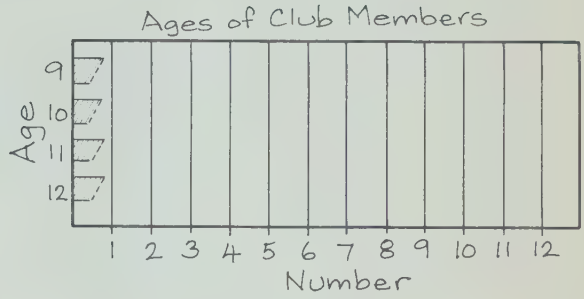
9	10	11	11	12	10	12	11	9	9
12	11	10	9	11	12	11	11	10	12
11	11	11	10	12	9	10	11	9	10

Complete this tally chart.

	Age	Number
1.	9	
	10	
	11	
	12	

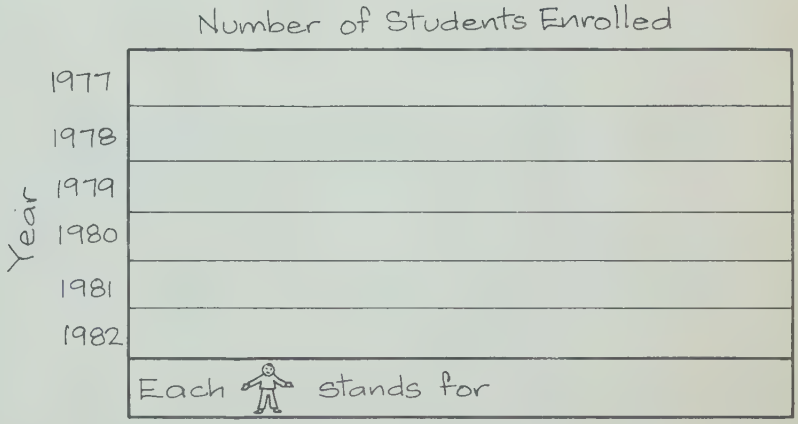
Draw a bar graph.

2.

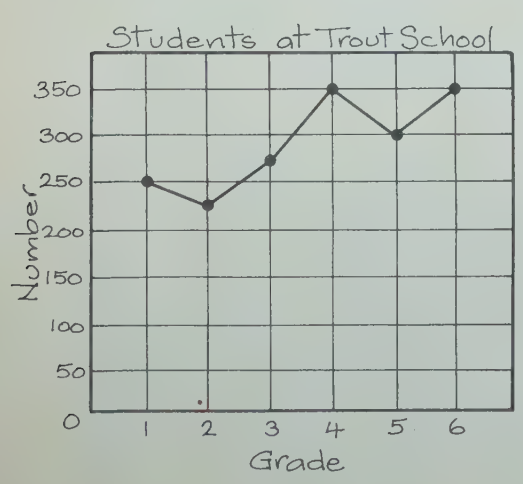


Complete the pictograph to show the following information.

	Year	Number of Students Enrolled
3.	1977	2000
	1978	2400
	1979	2800
	1980	3200
	1981	3200
	1982	2800



This line graph shows the number of students in each grade at the Trout Elementary School



4. In which grade are there the fewest students?

5. Between which grades does the number of students decrease?

6. Between which grades does the number of students increase the same amount?

7. Between which grades does the number of students change the most?

8. Which grades have the same number of students?

NAME

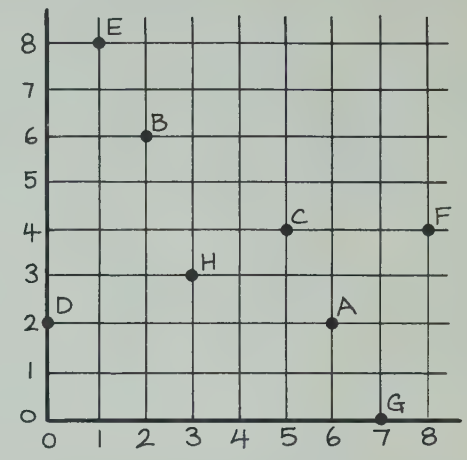
SPM5/U4/72-73

Ordered Pairs of Numbers and Points on a Grid

Give the ordered pair of numbers that matches each point.

1. A (6,2) 2. B 3. C 4. D

5. E 6. F 7. G 8. H



Plot each of these.

9. J(7, 3)
10. K(3, 7)
11. L(2, 2)
12. M(5, 0)
13. N(8, 6)
14. P(1, 5)
15. Q(0, 8)
16. R(6, 4)

SPM5/U4/74-75

Drawing Line Graphs

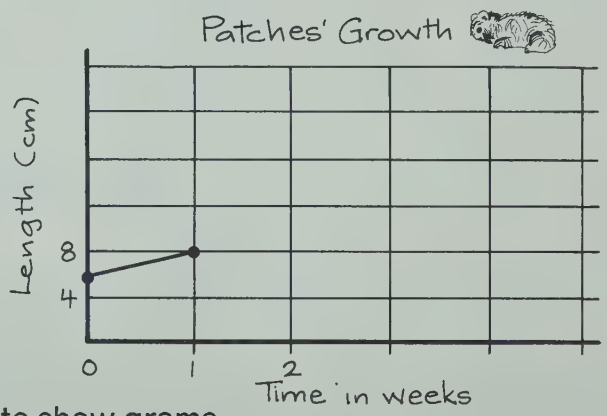
Draw a line graph for each.

1. Mark the horizontal number line to show weeks.
   Mark the vertical number line to show centimetres.

Part of the graph has been drawn.

Patches' Growth

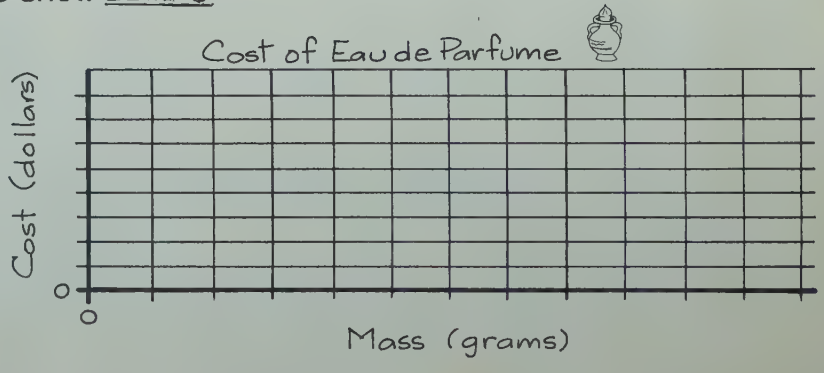
Time (in weeks)	Length (in centimetres)
0	6
1	8
2	12
3	15
4	20
5	24



2. Mark the horizontal number line to show grams.
   Mark the vertical number line to show dollars.

Eau de Parfume

Mass (in grams)	Cost (in dollars)
1	20
2	35
4	50
7	65
12	80



NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 2768 \\ +\ 4935 \\ \hline \end{array}$

2. $\begin{array}{r} 300 \\ \times\ 6 \\ \hline \end{array}$

3. $\begin{array}{r} 4030 \\ -\ 1647 \\ \hline \end{array}$

4. $\begin{array}{r} 278 \\ \times\ 14 \\ \hline \end{array}$

5. $\begin{array}{r} \$7.39 \\ -\ 0.86 \\ \hline \end{array}$

6. $\begin{array}{r} \$41.83 \\ +\ 19.75 \\ \hline \end{array}$

7. $\begin{array}{r} 714 \\ \times\ 125 \\ \hline \end{array}$

8. $\begin{array}{r} 20\,623 \\ +\ 49\,588 \\ \hline \end{array}$

9. $\begin{array}{r} 128 \\ \times\ 300 \\ \hline \end{array}$

10. $\begin{array}{r} 10\,719 \\ -\ 9\,467 \\ \hline \end{array}$

11. $3 \times 15 \times 124$

12. $42\,386 - 3\,871$

13. $\$4219 + \$8081$

14. $46 \times 81 \times 29$

15. $4203 + 8116$

16. $171\,429 - 36\,500$

Solve. Show your work.

17. A department store paid $27 500 for newspaper advertising one week and $42 625 the next. What was the total it paid?

18. The city estimated that tolls on the bridge would average $2150 every day for the next 90 d. How much money would this be?

19. The well is estimated to provide 4375 L of water each day. How much water would this be in a week?

20. The farmer has 2 rolls of fencing. One has 333 m and the other 475 m. How much fencing is this?

21. Two airplanes pass each other. One is at 10 500 m. The other is at 7750 m. How much higher is the first airplane?

22. Ian's birthday is 7 d away. How many minutes is this?

NAME

SPM5/U5/80-81

Using Multiplication to Divide

Divide. Show the quotient and the remainder.

1. $6\overline{)26}$ 4 R2, 24, 2, 6×4	2. $9\overline{)42}$ 4, 9×4	3. $7\overline{)26}$	4. $8\overline{)45}$	5. $4\overline{)30}$
6. $2\overline{)15}$	7. $9\overline{)67}$	8. $6\overline{)52}$	9. $8\overline{)73}$	10. $4\overline{)19}$
11. $3\overline{)17}$	12. $7\overline{)61}$	13. $5\overline{)49}$	14. $2\overline{)13}$	15. $6\overline{)37}$

16. 25 ÷ 3

17. 19 ÷ 8

18. 27 ÷ 5

Practice

Solve. Show your work.

1. 1965 km of the Alaska Highway are in Canada. 486 km are in the United States. How much longer is the Canadian part of the highway?

2. The tennis camp can accept 44 children each session. It plans to run 5 sessions this summer. How many children can attend?

3. Mark's mother and father both work. His father's income last year was $12 319.75. His mother's income was $13 417.75. What was their total income?

4. On their holiday trip, the Rosenberg's shot 24 rolls of film. There are 15.2 m of film on each roll. How much film did they use in all?

NAME

SPM5/U5/82-83

Sharing Hundreds, Tens, and Ones

Divide.

1. $3\overline{)963}$

   1
   20 } 321
   300

   900 (3 x 300)
   63
   60 (3 x 20)
   3
   3 (3 x 1)
   0

2. $2\overline{)664}$

   300

   (2 x 300)

3. $4\overline{)844}$

4. $2\overline{)244}$

5. $3\overline{)609}$

6. $2\overline{)280}$

7. $4\overline{)848}$

8. $6\overline{)666}$

9. $3\overline{)693}$

10. $2\overline{)864}$

SPM5/U5/84-85

Regrouping Tens

Divide.

1. $3\overline{)52}$

   7
   10 } 17 R1

   30 (3 x 10)
   22
   21 (3 x 7)
   1

2. $4\overline{)96}$

   20

   (4 x 20)

3. $6\overline{)78}$

4. $5\overline{)65}$

5. $6\overline{)86}$

6. $2\overline{)52}$

7. $3\overline{)58}$

8. $5\overline{)79}$

9. $4\overline{)72}$

10. $7\overline{)90}$

NAME

SPM5/U5/86-87

Regrouping Hundreds, Regrouping Tens

Divide.

1. $5\overline{)750}$

50
100 } 150
500 (5 x 100)
250
250 (5 x 50)
0

2. $7\overline{)450}$

60
(7 x 60)

3. $6\overline{)294}$

4. $4\overline{)680}$

5. $8\overline{)655}$

6. $3\overline{)735}$

7. $5\overline{)369}$

8. $7\overline{)378}$

9. $2\overline{)930}$

10. $9\overline{)747}$

SPM5/U5/88-89

Dividing by a One-Digit Number

Divide.

1. $4\overline{)1444}$

1
60
300 } 361
1200 (4 x 300)
244
240 (4 x 60)
4
4 (4 x 1)
0

2. $3\overline{)1637}$

500
(3 x 500)

3. $7\overline{)5824}$

4. $5\overline{)4326}$

5. $2\overline{)457}$

6. $9\overline{)2154}$

7. $6\overline{)9258}$

8. $8\overline{)30\,127}$

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 314\,209 \\ +\ 896\,477 \\ \hline \end{array}$

2. $\begin{array}{r} 5246 \\ \times\ 78 \\ \hline \end{array}$

3. $6\overline{)54}$

4. $\begin{array}{r} 4013 \\ -1845 \\ \hline \end{array}$

5. $7\overline{)217}$

6. $\begin{array}{r} 943 \\ \times\ 27 \\ \hline \end{array}$

7. $\begin{array}{r} \$8146.79 \\ +\ 398.52 \\ \hline \end{array}$

8. $5\overline{)2646}$

9. $\begin{array}{r} \$47.39 \\ -\ 22.95 \\ \hline \end{array}$

10. $\begin{array}{r} 600 \\ \times\ 13 \\ \hline \end{array}$

11. $7 \times 15 \times 36$

12. $7013 \div 8$

13. $8142 - 507$

14. $32\,520 \div 6$

15. $\$41.27 \times 63$

16. $214\,831 + 419\,270$

Solve. Show your work.

17. The central library divided $1000 equally among its 4 branches. How much did each get?

18. 8 adults in an elevator have an average mass of 76 kg. What is their total mass?

19. The bluejay population in our area last summer was estimated to be 9500. The robin population was estimated to be 17 900. What is the total population of the 2 birds?

20. To find the average height of 6 children, Tom took the sum of their heights and divided by 6. The sum of their heights was 588 cm. What was the average height?

21. When the auditorium is filled with adults, the ticket sales amount to $5385. What is the total sales when the auditorium is filled for 7 performances?

22. The St. Lawrence River is about 3040 km long. The Yukon River is about 2880 km long. How much longer is the St. Lawrence?

NAME

SPM5/U5/90-91

A Shorter Form for Division

Divide. Use the shorter form.

1. $4\overline{)273}$ 68 R1 240 (4 x 60) 33 32 (4 x 8) 1	2. $6\overline{)525}$ 8 (6 x 80)	3. $5\overline{)980}$	4. $7\overline{)4151}$	5. $8\overline{)3007}$

6. $8\overline{)984}$ 7. $3\overline{)432}$ 8. $5\overline{)2107}$ 9. $7\overline{)3678}$ 10. $9\overline{)25\,671}$

SPM5/U5/92-93

The Standard Form for Division

Divide. Use the standard form.

1. $3\overline{)2352}$ 784 21 ← (3 x 7) 25 24 ← (3 x 8) 12 12 (3 x 4) 0	2. $7\overline{)2378}$ 3 21 ← (7 x 3)	3. $6\overline{)4052}$	4. $4\overline{)588}$	5. $3\overline{)4091}$

6. $5\overline{)834}$ 7. $6\overline{)1279}$ 8. $2\overline{)6730}$ 9. $9\overline{)53\,201}$ 10. $8\overline{)21\,390}$

NAME _____

Practice

Perform the indicated operation.

1. $41 916 − 24 828

2. 2346 × 83

3. $7\overline{)4068}$

4. $473.85 + 264.91

5. $3\overline{)2478}$

6. 700 × 21

7. 2 738 + 4 621 + 12 909

8. $27.80 − 14.95

9. $36.47 × 23

10. $7\overline{)27\,388}$

11. 14 371 ÷ 8

12. 3 × 24 × 270

13. 84 219 − 4375

14. 864 + 921 + 1382

15. 3005 ÷ 4

16. $12.37 × 12

Solve. Show your work.

17. The three players signed contracts for $75 000, $88 000, and $135 000. How much is this in all?

18. One wilderness area of 2700 km^2 in Canada has a population density of 14 people/km^2. How many people live in this area?

19. A census study shows the average family income in a town to be $5436. If the town has a population of 183 families, what is the total income in the town?

20. The 1970 population of Newfoundland was 516 000. At that time, Nova Scotia had a population of 776 000. How many more people lived in Nova Scotia?

21. 288 visitors are expected. There are 8 guides. How many visitors per guide will there be?

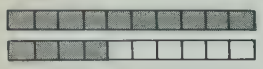
22. 4 men working on a farm harvested 10 900 kg of wheat. How many kilograms per man is this?

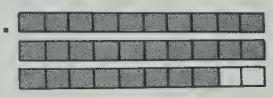
NAME

SPM5/U6/100-101

Using Decimals to Show Tenths

Write the one-place decimal for each.
Write the words for each.

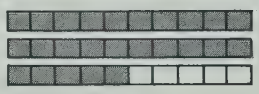
1. 
1.4
one and four-tenths

2. 
Two and _____

3.

4.

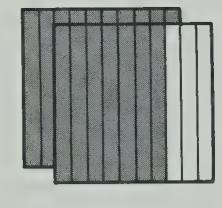
5.

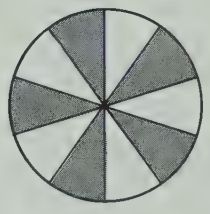
6. 

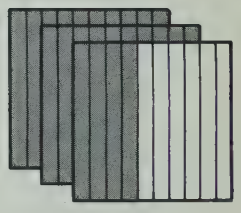
7.

8.

9.

10. 

11. 

12. 

SPM5/U6/102-103

Using Decimals to Show Hundredths

Write the two-place decimal for each.
Write the words for each.

	ones	tenths	hundredths
1.	4	0	2

4.02
four and two-hundredths

	ones	tenths	hundredths
2.	0	2	4

0. _____

	ones	tenths	hundredths
3.	1	3	1

	ones	tenths	hundredths
4.	3	0	6

	ones	tenths	hundredths
5.	7	6	0

	ones	tenths	hundredths
6.	0	9	3

	ones	tenths	hundredths
7.	1	6	2

	ones	tenths	hundredths
8.	0	2	4

	ones	tenths	hundredths
9.	5	9	9

NAME

SPM5/U6/106-107

Using Decimals to Show Thousandths

Write the three-place decimal.

1. one and seventy-three thousandths 1.073	2. five and two-thousandths 5.___	3. sixty-nine thousandths

Write using words.

4. 2.052	5. 0.019	6. 1.008
Two and fifty-two thousandths	nineteen _____	

What does each 2 mean?

7. 15.142 2 thousandths	8. 4.021 2_____	9. 0.052

Write the three-place decimal.

10. two-thousandths	11. six and twenty-two thousandths	12. 3 and 120 thousandths

Write using words.

13. 5.006	14. 2.891	15. 0.048

What does each 8 mean?

16. 0.008	17. 0.508	18. 3.485

SPM5/U6/108

Comparing Decimals

Compare the whole numbers and then the digits in the decimal places.
Use >, <, or = to make true statements.

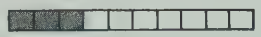
1. 18.071 < 18.17	2. 3.35 ___ 3.45	3. 1.201 ___ 1.102
4. 0.879 ___ 0.987	5. 6.2 ___ 6.20	6. 0.407 ___ 0.47
7. 9.45 ___ 9.452	8. 0.5 ___ 0.9	9. 17.4 ___ 17.83
10. 0.9 ___ 0.900	11. 1.21 ___ 1.12	12. 67.03 ___ 67.3
13. 20.005 ___ 20.5	14. 19.500 ___ 19.62	15. 78.1 ___ 78.015
16. 6.5 ___ 6.45	17. 3.065 ___ 3.6	18. 0.71 ___ 0.7

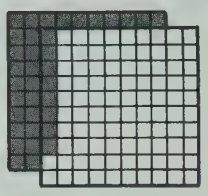
NAME _____

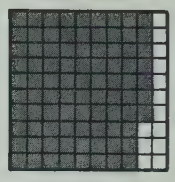
Practice

Write a decimal for each.

1.

2. 

3. 

4. 

ones	tenths
2	4

5.

6. six-tenths

ones	tenths
4	7

7.

8. seven and two-hundredths

ones	tenths	hundredths
0	1	7

9.

10. 9 and 12 hundredths

ones	tenths	hundredths
4	0	9

11.

12. fifteen and thirty-two hundredths

ones	tenths	hundredths
5	5	5

13.

14. five and five-thousandths

15. two and one hundred two-thousandths

16. two hundred six-thousandths

ones	tenths	hundredths	thousandths
5	2	8	1

17.

Write using words.

18. 3.2

19. 0.7

20. 5.1

21. 0.20

22. 5.02

23. 7.18

24. 3.107

25. 0.056

26. 1.001

Tell what each underlined digit means.

27. 0.<u>5</u>1

28. 3.68<u>4</u>

29. <u>2</u>.7

30. 9<u>2</u>

31. 0.<u>6</u>

32. 2.3<u>0</u>6

Use >, <, or = to make true statements.

33. 2.01 ___ 2.010

34. 18.2 ___ 17.9

35. 42.4 ___ 42.38

36. 1.7 ___ 1.70

37. 22.007 ___ 22.7

38. 0.416 ___ 0.461

39. 0.18 ___ 0.2

40. 0.100 ___ 0.1

41. 0.006 ___ 0.6

NAME

SPM5/U6/109-110

Ordering Decimals

List from greatest to least.

1. 5.721, 5.712, 5.727, 5.271

5.727, 5.721, 5.712, 5.271

2. 0.7, 0.71, 0.17, 0.171

List from least to greatest.

3. 9.7, 9.371, 9.137, 9.13

9.13, 9.137, 9.371, 9.7

4. 5.15, 5.521, 5.125, 5.5

List from greatest to least.

5. 0.15, 0.45, 0.25, 0.2

6. 2.71, 2.17, 2.7, 2.8

7. 11.84, 11.084, 11.184, 1.84

8. 6.564, 6.545, 6.546, 6.566

List from least to greatest.

9. 0.021, 0.12, 0.002, 0.21

10. 6.79, 6.7, 6.07, 6.791

11. 0.717, 0.7, 0.71, 0.72

12. 3.413, 3.34, 3.43, 4.3

SPM5/U6/112-113

Rounding Decimals

Round to the nearest whole number.

1. 2.91 3

2. 67.236

3. 5.149

4. 8.5

Round to the nearest tenth.

5. 4.67 4.7

6. 0.062

7. 12.15

8. 9.912

Round to the nearest whole number.

9. 4.8

10. 46.81

11. 3.56

12. 0.602

Round to the nearest tenth.

13. 21.735

14. 7.09

15. 0.19

16. 10.009

NAME

SPM5/U6/116-117

Adding Decimals

Add.

1. 1.789 5.371 7.160	2. 6.78 2.93	3. 70.7 76.8	4. 40.1 + 506.2 + 8.6

5. 26.7 37.5	6. 3.65 1.28	7. 36.8 409.8	8. 68.45 5.32
9. 6.519 5.087	10. 3.45 5.67	11. 5.8 5.9	12. 4.979 8.645

13. 40.1 + 6.2 + 18.6 + 38.5

14. 18.134 + 4.782 + 6.894

SPM5/U6/118-119

Subtracting Decimals

Subtract.

1. 8.25 5.46 3.79	2. 60.4 36.5 9	3. 95.7 77.8	4. 6.580 − 3.732	
5. 5.091 3.123	6. 40.4 25.8	7. 81.96 67.21	8. 6.663 2.867	9. 43.20 16.75
10. 9.006 7.543	11. 5.209 1.534	12. 63.9 15.3	13. 0.76 0.48	14. 69.32 43.38

15. 600.68 − 514.26

16. 20.00 − 12.53

17. 67.837 − 62.459

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 7.34 \\ +\ 2.98 \\ \hline \end{array}$

2. $\begin{array}{r} 16.73 \\ -\ 4.81 \\ \hline \end{array}$

3. $\begin{array}{r} 2739 \\ \times\ 15 \\ \hline \end{array}$

4. $8\overline{)9180}$

5. $\begin{array}{r} \$17.46 \\ 8.21 \\ +\ 9.73 \\ \hline \end{array}$

6. $5\overline{)22\,415}$

7. $\begin{array}{r} 32\,809 \\ \times\ 6 \\ \hline \end{array}$

8. $\begin{array}{r} \$2784 \\ -\ 961 \\ \hline \end{array}$

9. $\begin{array}{r} 400 \\ \times\ 16 \\ \hline \end{array}$

10. $\begin{array}{r} 3.417 \\ -\ 0.682 \\ \hline \end{array}$

11. 1095 + 861

12. 3 x 19 x 184

13. 6.812 − 3.745

14. \$16.00 − \$9.08

15. 189 ÷ 3

16. 21.7 + 83.6 + 2.9

Solve. Show your work.

17. The runner ran 4 laps of the track. The lap times were 62.6 s, 63.4 s, 63.7 s, and 62.3 s. What was the average lap time?

18. Licences were issued to 42 381 people last year. 1 427 of these were later cancelled. How many of the licences remained valid?

19. A book is for sale for \$11.95 per copy. The library wants 4 copies. How much will this cost?

20. Mr. Keene was paid \$512 for 8 d work. He made the same amount each day. How much did he make per day?

21. Juliet swam four lengths of the pool in these times: 21.35 s, 22.40 s, 22.75 s, and 23.68 s. What was her total time for the 4 lengths?

22. From noon to 1 p.m., the tide rose 18.7 cm. It fell 6.8 cm from 1 p.m. to 2 p.m. How much higher was it at 2 p.m. than at noon?

NAME _____

SPM5/U7/126-127

Measuring with Metres or Centimetres

Complete.

1. 170 cm = 1.7 m (100 cm = 1 m)	2. 3 m = ____ cm (1 m = 100 cm)	3. 85 cm = ____ m

4. 450 cm = ____ m
5. 2 m = ____ cm
6. 306 cm = ____ m
7. 6.8 m = ____ cm
8. 500 cm = ____ m
9. 0.5 m = ____ cm

Measure to the nearest centimetre.
Use a decimal to give the length in metres.

10. the height of your classroom door
11. the length of your arm
12. the height of the pencil sharpener
13. the length of this page

Practice

Solve. Show your work.

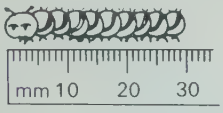
1. The drugstore sells vitamin pills with 150 in a bottle. How many vitamin pills are in 6 bottles?
2. Randolph has to read 1106 pages in a week. How many pages should he average for each of the 7 d?
3. Melinda is painting a neighbor's house. During the first week she earned $47.00. During the next two weeks she earned $85.50 each week. How much has she made so far?
4. The three Chatterjee children ask their mother for money to buy fish and chips. Each meal costs $2.95. How much would she have to give them?
5. When the gas tank has been filled, the car can go 650 km. Mr. Braun knows he has driven 175 km on this tank of gasoline. How much farther can he go?
6. Lisa finished the race in 50.03 s. The winner's time was 45.77 s. How many seconds more did Lisa take?

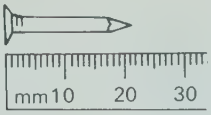
NAME

SPM5/U7/128-129

Measuring with Millimetres

Measure to the nearest millimetre.

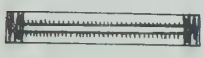
1. 

2. 

3.

4.

5.

6. 

7.

8.

9.

10.

11.

SPM5/U7/130-131

Metres, Centimetres, and Millimetres

Give each length in centimetres. (1 mm = 0.1 cm, 1 m = 100 cm)

1. 14 mm 1.4 cm
2. 4 m 400 cm
3. 112 mm
4. 0.35 m

Give each length in millimetres. (1 cm = 10 mm, 1 m = 1000 mm)

5. 2.8 cm 28 mm
6. 0.25 m 250 mm
7. 0.3 cm
8. 3.6 m

Give each length in metres. (1 mm = 0.001 m, 1 cm = 0.01 m)

9. 1500 mm 1.5 m
10. 155 cm 1.55 m
11. 770 mm
12. 90 cm

Give each length in centimetres.

13. 5 mm
14. 2.3 m
15. 30 mm
16. 0.02 m

Give each length in millimetres.

17. 2 m
18. 4.9 cm
19. 13 cm
20. 0.009 m

Give each length in metres.

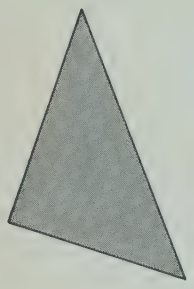
21. 6 cm
22. 3000 mm
23. 630 cm
24. 7 mm

NAME

SPM5/U7/132

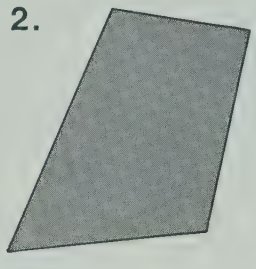
Finding the Perimeter

Measure each side in millimetres. Then add to find the perimeter.

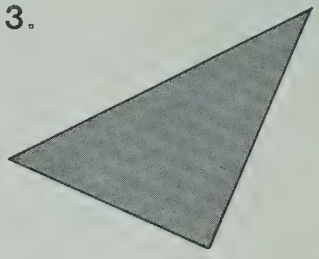
1. 

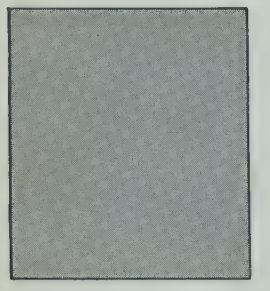
29
37
24
90

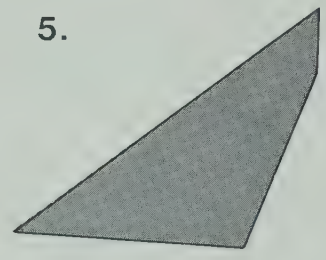
90 mm

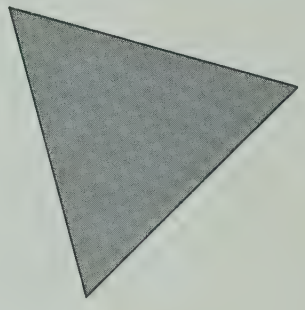
2. 

18
26

3. 

4. 

5. 

6. 

SPM5/U7/134-135

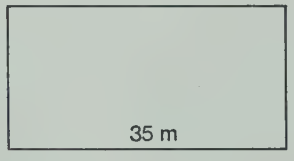
Finding the Perimeter of a Square or Rectangle

Find the perimeter of each square or rectangle.

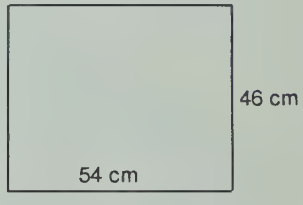
1.

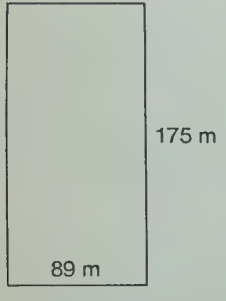
20
4
80

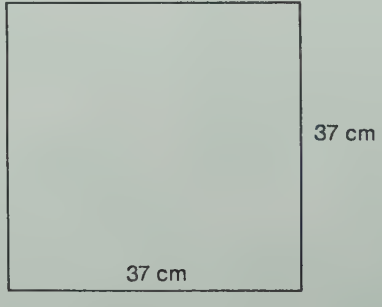
80 mm

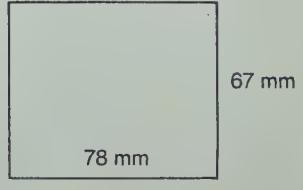
2. 

(2×35)+(2×18)=___ ____

3. 

4. 

5. 

6. 

What is the perimeter

7. of a square with each side 9 cm long?

8. of a rectangle that is 12 m long and 10 m wide?

NAME _____

Practice

Measure to the nearest centimetre.

1.

2.

3.

4.

Measure to the nearest millimetre.

5.

6.

7.

8.

Give each length in centimetres.

9. 30 mm
10. 6 m
11. 8 mm
12. 3.2 m

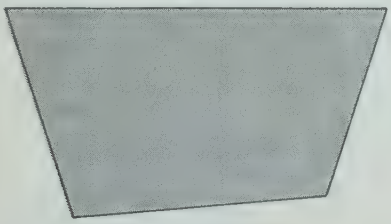
Give each length in millimetres.

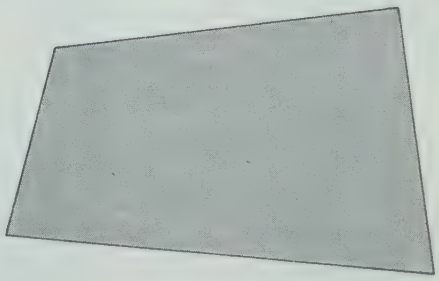
13. 1.5 cm
14. 3 m
15. 7 cm
16. 0.45 m

Give each length in metres.

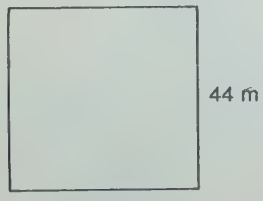
17. 225 cm
18. 1250 mm
19. 80 cm
20. 500 mm

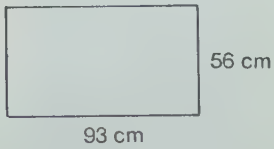
Measure to find the perimeter in millimetres.

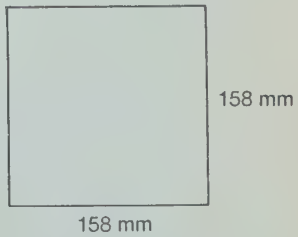
21. 

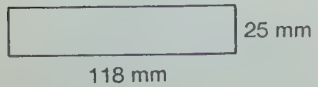
22. 

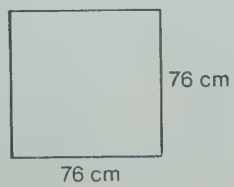
Find the perimeter of each square or rectangle.

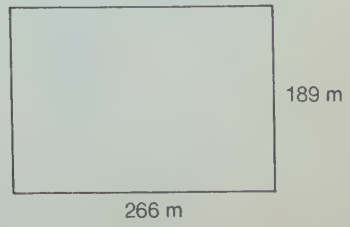
23. 

24. 

25. 

26. 

27. 

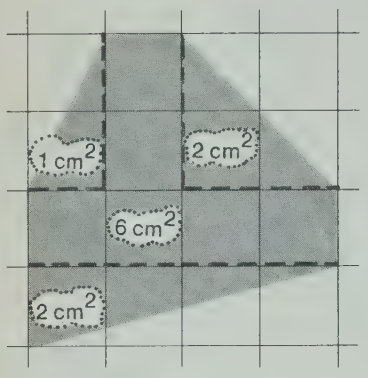
28. 

NAME

Counting to Find the Area

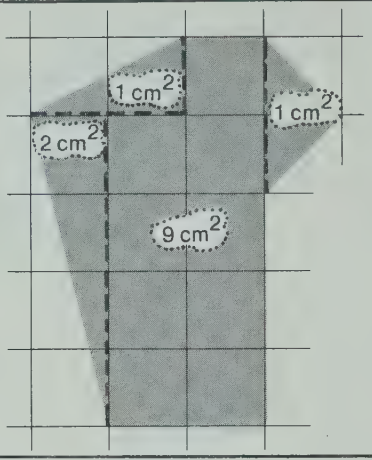
Find the area of each shape in square centimetres.

1.

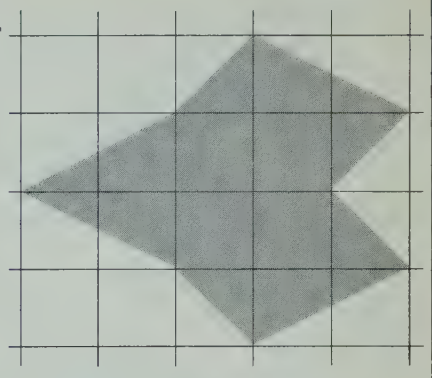


11 cm²

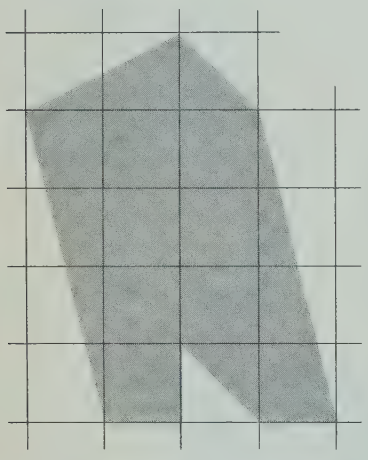
2.



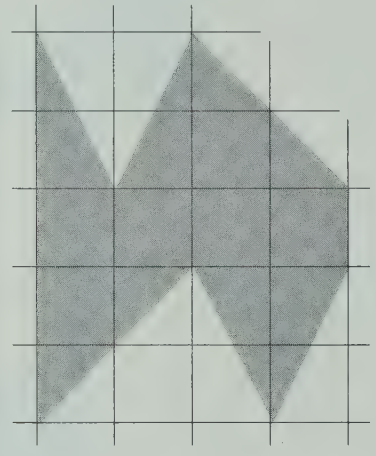
3.



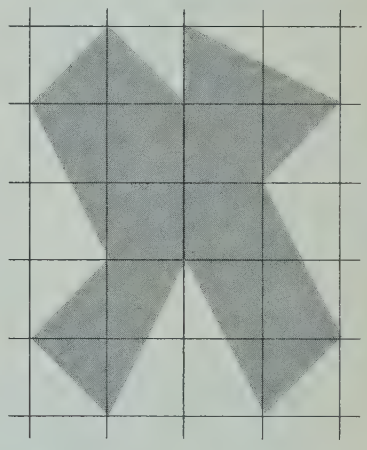
4.



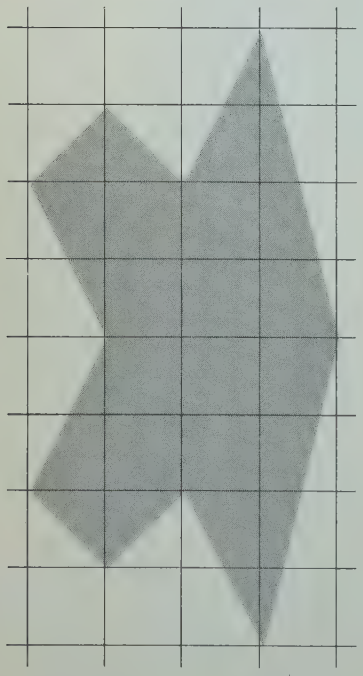
5.



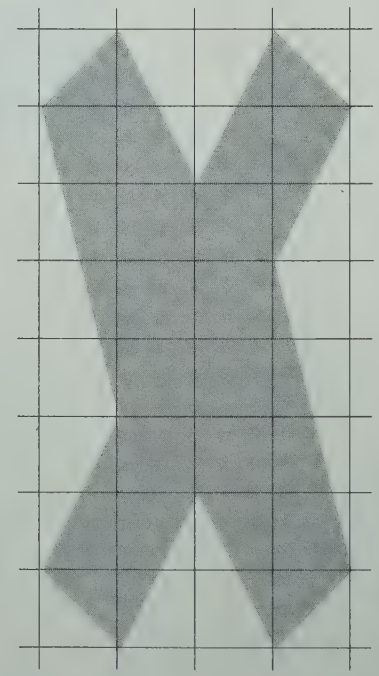
6.



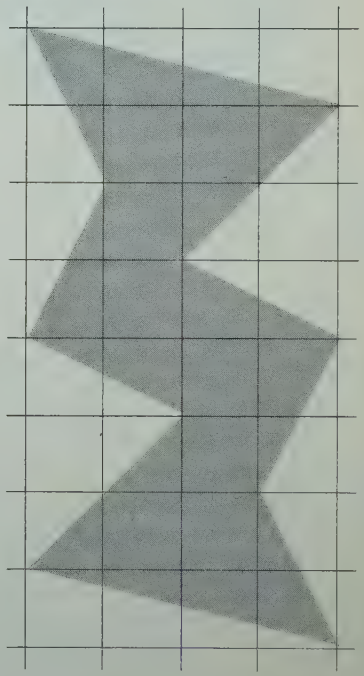
7.



8.



9.

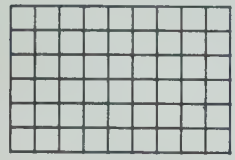


NAME

SPM5/U7/138-139

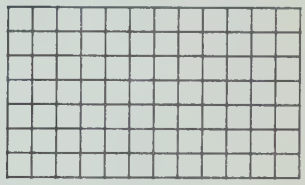
Finding the Area of a Rectangle

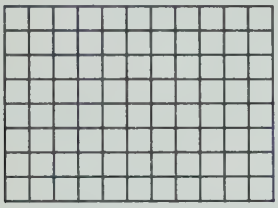
Each small square represents 1 cm^2. What is the area of each rectangle?

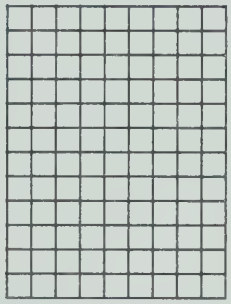
1. 

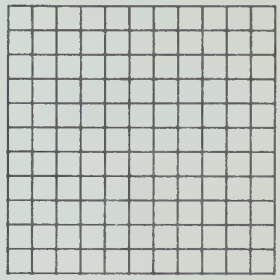
54 cm^2

2.

3. 

4. 

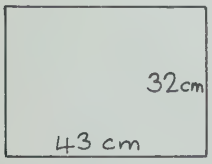
5. 

6. 

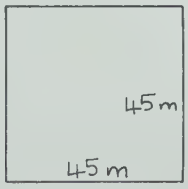
SPM5/U7/140-141

Finding the Area of a Rectangle by Using its Length and Width

Find the area of each rectangle.

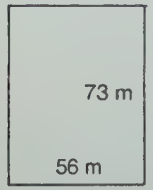
1. 

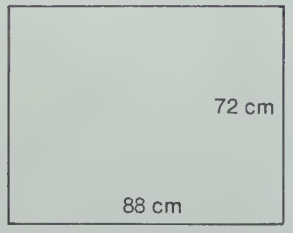
43 x 32 = 86, 1290, 1376
1376 cm^2

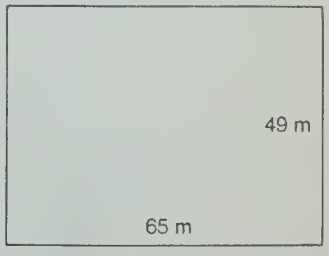
2. 

45 x 45

3.

4. 

5. 

6. 

7. length: 14 cm
width: 19 cm

8. length: 23 m
width: 52 m

9. length: 35 cm
width: 35 cm

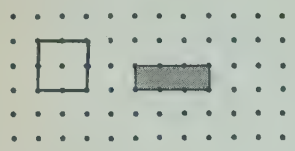
NAME

SPM5/U7/142

Rectangles Having a Given Perimeter

Show two rectangles each having the perimeter given.
Shade inside one of the rectangles.

1. 8 units



2. 12 units

3. 20 units

4. 10 units

5. 18 units

6. 24 units

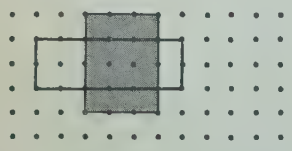
7. What is the area of each rectangle you drew for Exercises **1-6** ?

SPM5/U7/143

Rectangles Having a Given Area

Show two rectangles each having the area given.
Shade inside one of the rectangles.

1. 12 square units



2. 8 square units

3. 18 square units

4. 16 square units

5. 36 square units

6. 24 square units

7. What is the perimeter of each rectangle you drew for Exercises **1-6** ?

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 2337 \\ 4916 \\ +\ 825 \\ \hline \end{array}$

2. $\begin{array}{r} 17.014 \\ -\ 8.627 \\ \hline \end{array}$

3. $\begin{array}{r} \$42.35 \\ \times\ 7 \\ \hline \end{array}$

4. $6\overline{)4129}$

5. $\begin{array}{r} 5.861 \\ +\ 9.732 \\ \hline \end{array}$

6. $\begin{array}{r} 2040 \\ -\ 768 \\ \hline \end{array}$

7. $5\overline{)2405}$

8. $\begin{array}{r} 72846 \\ \times\ 8 \\ \hline \end{array}$

9. $\begin{array}{r} \$91.15 \\ +\ 7.42 \\ \hline \end{array}$

10. $\begin{array}{r} 400 \\ \times\ 17 \\ \hline \end{array}$

11. $27 \times 19 \times 36$

12. $4.718 - 2.916$

13. $\$5.79 + \$6.14 + \$3.75$

14. $1728 \div 6$

15. $\$16.81 - \$2.75$

16. $2471 + 386 + 27 + 9$

Solve. Show your work.

17. The length of a garden is 27 m. The width of the garden is 15 m. Find the area of the garden.

18. The length of the book is 28 cm. The width is 19 cm. What is the perimeter?

19. The workers are putting up a fence 126 m long. They need to put in a post every 3 m, and one at each end. How many posts will this take?

20. The phone bill is $25.68. The hydro bill is $53.79. The gas bill is $45.95. What is the total for the three utilities?

21. Mrs. Epping told Laura that her locker number plus Laura's adds to exactly 10 000. Laura knows that her locker number is 1170. What is Mrs. Epping's number?

22. The school play yard needs new fencing. The perimeter of the yard is 86 m. The fencing costs $6.50/m. What will the fencing for the yard cost?

NAME

SPM5/U8/148-149

Multiplying Decimals, to 0.9, 0.09, or 0.009, by One-Digit Whole Numbers

Multiply.

1. 4 x 0.6 2.4 4 x 6 tenths = 24 tenths	2. 7 x 0.9 7 x 9 tenths = ____ tenths	3. 7 x 0.06

4. 4 x 0.06	5. 7 x 0.09	6. 4 x 0.07
7. 4 x 0.09	8. 1 x 0.7	9. 5 x 0.004
10. 2 x 0.003	11. 6 x 0.8	12. 3 x 0.05
13. 1 x 0.2	14. 0 x 0.009	15. 8 x 0.08

16. 0.2 3	17. 0.01 6	18. 0.006 2	19. 0.5 8	20. 0.03 5

SPM5/U8/150-151

Multiplying Decimals by One-Digit Whole Numbers

Multiply.

1. 1 13.6 2 27.2	2. 1 1.36 3 8	3. 4.1 7	4. 2 x 0.136

5. 8.5 3	6. 0.91 6	7. 0.804 7	8. 0.372 4	9. 6.43 8
10. 38.2 9	11. 47.15 6	12. 3.36 3	13. 27.6 4	14. 0.63 9

15. 5 x 0.921

16. 8 x 0.014

17. 4 x 9.286

NAME

SPM5/U8/152-153

Estimating the Product

Round to the nearest whole number and multiply to estimate the product. Then find the exact product.

1. 7.9 → 8 4 → 4 31.6 32	2. 6.8 → 7 3 → 3 21	3. 3.7 5	4. 4.9 6	5. 2.84 7
6. 3.9 8	7. 5.8 4	8. 8.69 7	9. 5.73 3	10. 2.864 2
11. 7.64 5	12. 0.89 9	13. 1.3 6	14. 6.23 8	15. 3.579 2

SPM5/U8/154-155

Multiplying Decimals and Whole Numbers

Multiply.

1. 8.5 (tenths) 25 425 1700 212.5 (tenths)	2. 76 6.3 (tenths) 228 (tenths)	3. 4.7 38	4. 290 8.1	5. 0.35 29
6. 2.9 39	7. 62 5.4	8. 8.4 96	9. 714 7.2	10. 8.63 13
11. 0.45 48	12. 900 1.7	13. 6.35 24	14. 3.718 18	15. 500 0.023

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 2.79 \\ \times\ 14 \\ \hline \end{array}$

2. $\begin{array}{r} 27\,012 \\ -\ 8\,165 \\ \hline \end{array}$

3. $\begin{array}{r} 293 \\ 418 \\ +\ 602 \\ \hline \end{array}$

4. $4\overline{)2706}$

5. $\begin{array}{r} \$19.70 \\ -\ 4.86 \\ \hline \end{array}$

6. $\begin{array}{r} 6.7 \\ \times\ 5 \\ \hline \end{array}$

7. $3\overline{)8277}$

8. $\begin{array}{r} 12.802 \\ -\ 4.176 \\ \hline \end{array}$

9. $\begin{array}{r} 624 \\ \times\ 30 \\ \hline \end{array}$

10. $\begin{array}{r} 2.781 \\ 1.305 \\ +\ 4.619 \\ \hline \end{array}$

11. 64.2 x 83

12. 2.741 + 8.193

13. $6.46 - $3.71

14. 7 x 21 x 104

15. 7.412 x 5

16. 70 233 ÷ 2

Solve. Show your work.

17. Thompson School has one dictionary for every 8 students. There are 368 students. How many dictionaries does the school have?

18. The Hopes plan to travel to Calgary which is 3430 km away. They will drive 1775 km and go the rest of the way by train. How far will they travel by train?

19. In the recycling drive the Alpha School collected 1481 aluminum cans. The Bravo School collected 2755. How many cans did the two schools collect ?

20. Zoltan's lawn has a width of 12 m and a length of 20 m. It will cost about 15¢/m^2 to re-seed it. How much will this cost?

21. Tickets costs $2.75. Mrs. Kale bought 24 for her class. How much did this cost?

22. How many minutes are there in 8 d?

NAME

1000, 100, 10, 1, 0.1, 0.01 or 0.001 as a Factor

Multiply.

1. 36 x 10 360 36 one place – – greater 360	2. 36 x 100 36 two places – – greater	3. 36 x 1000
4. 0.1 x 36 3.6 36 one place – – less 3.6	5. 0.01 x 36 36 two places – – less	6. 0.001 x 36

7. 74 x 10	8. 74 x 100	9. 74 x 0.1
10. 74 x 0.001	11. 0.01 x 5.1	12. 100 x 5.1
13. 10 x 0.89	14. 100 x 2.43	15. 0.1 x 0.05
16. 652 x 0.001	17. 1000 x 0.278	18. 8400 x 0.01
19. 4.1 x 0.1	20. 10 x 0.01	21. 0.004 x 100
22. 100 x 0.09	23. 38 x 0.1	24. 0.01 x 28.6
25. 1.7 x 10	26. 0.01 x 0.1	27. 0.87 x 1000

Practice

Solve. Show your work.

1. 26 students gathered names on a safety petition. Each student filled 3 pages. Each page had 50 names. How many names did they gather in all?

2. In the election, Ecker received 12 589 votes, Figueroa received 7291 votes, and Garfield received 10 777 votes. How many votes were cast?

3. How many more votes than Ecker did Figueroa and Garfield receive in all?

4. Bancroft School orders 35 copies of a textbook. They cost $7.95 each. How much will 35 cost?

5. 9 campaign workers had to contact 3060 voters. They shared the names equally. How many voters did each have to contact?

6. The budget allowed $17 500 for February. What is the average amount budgeted for each of the 4 weeks of February?

NAME

Changing Measurement Units

1 m = 10 dm	1 dm = 0.1 m	
1 m = 100 cm	1 cm = 0.01 m	
1 m = 1000 mm	1 mm = 0.001 m	

Change to the larger unit.

1. 362 cm = 3.62 m
2. 875 cm = _____ m
3. 50 cm = _____ m
4. 18 mm = 1.8 cm
5. 2 mm = _____ cm
6. 6000 mm = _____ m

Change to the smaller unit.

7. 7.8 m = 780 cm
8. 1.5 m = _____ cm
9. 0.7 m = _____ cm
10. 3 cm = 30 mm
11. 24.5 cm = _____ mm
12. 1.2 m = _____ mm

Complete.

13. 4 m = _____ cm
14. 3.1 m = _____ mm
15. 3500 mm = _____ m
16. 8.1 m = _____ dm
17. 28 cm = _____ m
18. 0.8 m = _____ mm
19. 65 cm = _____ mm
20. 79.1 dm = _____ m
21. 185 cm = _____ m
22. 0.3 m = _____ cm
23. 600 mm = _____ m
24. 480 mm = _____ cm

Practice

Solve. Show your work.

1. A typical North American household uses about 240 L of water each day. About how many litres of water would a community of 135 households use?

2. The 1966 population of Vancover was 384 522. In 1900 the population was only 178 657. By how much had Vancouver grown?

3. At a banquet, 386 guests are asked to sit at tables for 4. After filling as many tables as possible, how many guests will there be who will have to sit at a table with fewer than 4?

4. Mrs. Flora goes to the greenhouse to buy plants. She gets 2 chrysanthemums at $3.98 each and 3 azaleas at $5.95 each. How much do the plants cost in all?

5. The summer festival had 3218 visitors in June, 5043 in July, and 4721 in August. What was the total three-month attendance?

6. The average family in Smithville has 5 members. The population of Smithville is 2755. About how many families live in Smithville?

NAME

SPM5/U8/161

Multiplying Decimal Tenths, Both Factors Less Than 1.0

Multiply. Remember, the product of two decimals showing tenths is a decimal showing hundredths.

1. 0.4 (tenths) 0.3 (tenths) 0.12 (hundredths)	2. 0.6 (tenths) 0.5 (tenths) (hundredths)	3. 0.8 0.7	4. 0.9 x 0.5

5. 0.3 0.7	6. 0.9 0.2	7. 0.4 0.8	8. 0.9 0.9	9. 0.5 0.5
10. 0.1 0.1	11. 0.4 0.6	12. 0.6 0.8	13. 0.7 0.4	14. 0.8 0.3

15. 0.6 x 0.9 16. 0.2 x 0.2 17. 0.9 x 0.4

SPM5/U8/162-163

Multiplying Decimal Tenths, One Factor Less Than 1.0

Multiply. Remember, the product of two decimals showing tenths is a decimal showing hundredths.

1. 7.3 (tenths) 0.4 (tenths) 2.92 (hundredths)	2. 6.3 (tenths) 0.2 (tenths) (hundredths)	3. 6.8 0.3	4. 0.9 x 10.2

5. 5.6 0.6	6. 8.4 0.4	7. 9.7 0.8	8. 5.0 0.5	9. 7.8 0.2
10. 4.7 0.7	11. 27.9 0.3	12. 46.8 0.5	13. 34.9 0.9	14. 25.8 0.8

15. 0.6 x 4.3 16. 0.8 x 7.6 17. 0.1 x 4.0

NAME

SPM5/U8/164-165

Multiplying Decimal Tenths

Multiply. Remember, the product of two decimals showing tenths is a decimal showing hundredths.

1 * 1. 6.2 tenths 8.7 tenths 434 4960 53.94 hundredths	3 2. 1.6 tenths 2.6 tenths 96 hundredths	3. 2.5 3.9	4. 12.3 6.3	5. 30.7 1.4
6. 8.5 4.6	7. 1.9 5.5	8. 6.1 3.7	9. 3.7 2.9	10. 2.5 1.7
11. 10.9 8.4	12. 25.8 5.8	13. 39.8 2.1	14. 78.3 23.6	15. 31.4 49.7

Practice

Solve. Show your work.

1. Mrs. Wilmot wants to drive from Regina to Edmonton. This is about 12.5 cm on her map. Each centimetre represents 60 km. What is the actual distance?

2. The 7th grade class is on a bus trip to Montreal. The driver hopes to cover the distance of 280 km in 5 h. What speed will the driver have to average?

3. A gold plate for a trophy is 3.4 cm wide and 5.8 cm long. What is its area?

4. Al buys 20 boxes of tissues, each with 280 tissues. How many tissues is this?

5. Food for the class cookout cost $66.27. Paper goods were $16.71. Rental chairs cost $15.00. Other expenses were $4.68. What was the total cost?

6. Donna buys ribbons for a track meet. They cost $15.39. She pays with two 10-dollar bills. How much change will she receive?

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 27.402 \\ +\ 8.619 \\ \hline \end{array}$

2. $\begin{array}{r} 704 \\ -216 \\ \hline \end{array}$

3. $3\overline{)4876}$

4. $\begin{array}{r} 4217 \\ \times\ 38 \\ \hline \end{array}$

5. $\begin{array}{r} \$42.61 \\ 27.38 \\ +\ 9.04 \\ \hline \end{array}$

6. $\begin{array}{r} 7.516 \\ \times\ 3 \\ \hline \end{array}$

7. $\begin{array}{r} 400 \\ \times 1.2 \\ \hline \end{array}$

8. $\begin{array}{r} 4.21 \\ -1.37 \\ \hline \end{array}$

9. $\begin{array}{r} 271 \\ \times 304 \\ \hline \end{array}$

10. $6\overline{)841}$

11. $12 \times 15 \times 29$

12. $48\,102 - 6\,734$

13. $1906 \div 7$

14. $481 + 47 + 89$

15. $7.461 - 2.389$

16. $210\,437 - 46\,895$

Solve. Show your work.

17. A rectangle is 4.5 cm wide. Its length is 8.3 cm. Find its perimeter.

18. Dr. Nelson has a bottle with 68 mL of medicine. Each dose is 2 mL. How many doses are there?

19. One stack of boards has 10 boards each 7.7 cm thick. Another has 10 boards each 1.4 cm thick. What is the difference in height of the two stacks?

20. The rows of corn in a garden are 0.8 m apart. What is the distance between the tenth and fifteenth rows?

21. England is 6454 km by ship from Thunder Bay, Ontario. It is 4668 km from Churchill, Manitoba. How much shorter is the trip from Churchill?

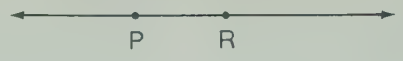
22. Anne's times for each length of the four-length swim were 27.3 s, 24.5 s, 24.6 s, and 29.7 s. What was her total time in minutes and seconds?

NAME

SPM5/U9/170-171

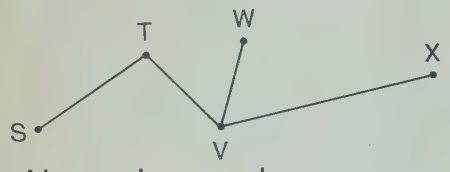
Lines, Line Segments, and Rays

For the picture, name

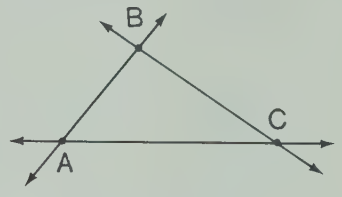


1. a line. $\overleftrightarrow{PR}$
2. a ray.
3. a line segment.

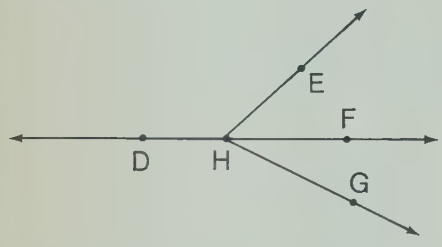
4. How many line segments are there? Name them.



5. How many lines are there? Name them.



6. Name six rays shown in this picture.



Draw and label

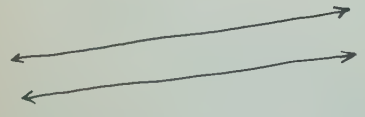
7. line WG.
8. ray NM.
9. line segment LQ.

SPM5/U9/172-173

Parallel, Intersecting, and Perpendicular Lines

Draw

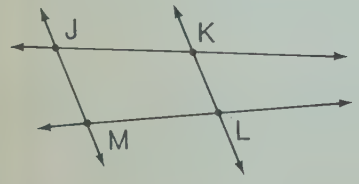
1. two parallel lines.



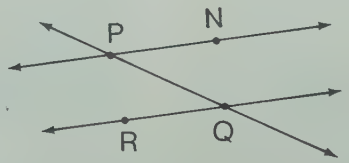
2. two perpendicular lines.

Name

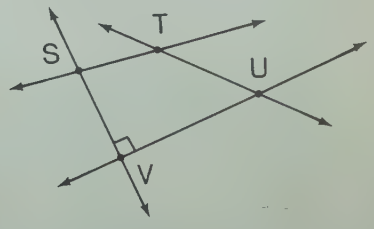
3. two parallel lines.



4. two intersecting lines.



5. two perpendicular lines.



Draw

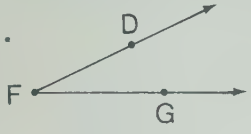
6. ray PQ parallel to ray RS.
7. line segment TW perpendicular to line segment YZ.

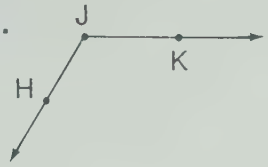
NAME

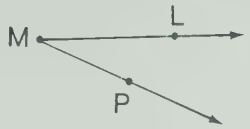
SPM5/U9/174-175

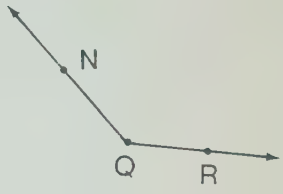
Angles

Write two names for each angle shown.

1. 

2. 

3. 

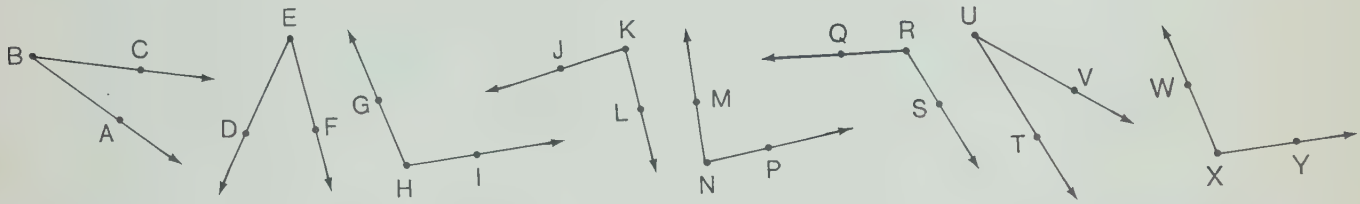
4. 

Use tracing paper.

5. Test whether the angles in Exercises 1 and 3 are congruent.
A tracing of one matches the other. Yes

6. Test whether the angles in Exercises 2 and 4 are congruent.

7. Name three pairs of congruent angles.



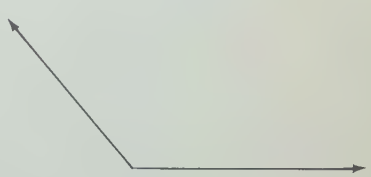
SPM5/U9/176-177

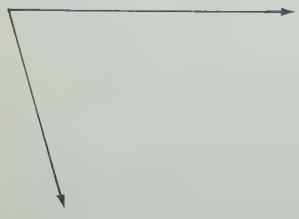
Measuring Angles

Measure the angle. Is the angle acute, right, or obtuse?

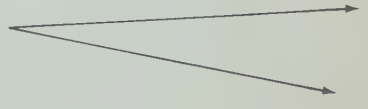
1.
40°, acute

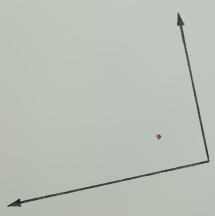
2.
90°, _____

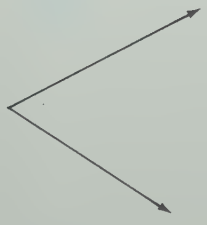
3. 

4. 

5.

6. 

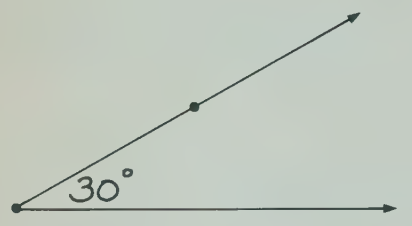
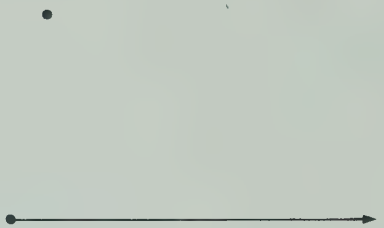
7. 

8. 

9.

Drawing Angles

Use a protractor. Draw an angle that measures

1. 30°. 	2. 80°. 	3. 100°.

4. 150°.

5. 90°.

6. 45°.

7. 10°.

8. 120°.

9. 66°.

10. 53°.

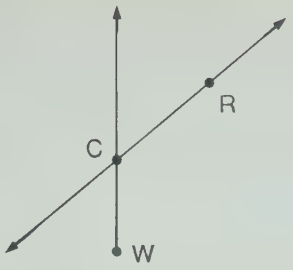
11. 5°.

12. 135°.

NAME

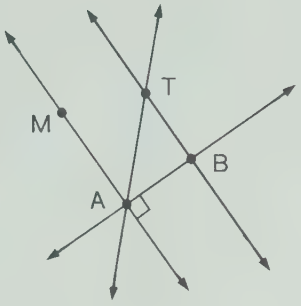
Practice

For the picture, name



1. a line.
2. two line segments.
3. three rays.

For the picture, name



4. two lines that are parallel.
5. two lines that intersect.
6. two lines that are perpendicular.

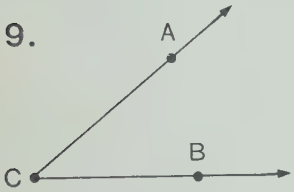
Draw

7. line segment YD parallel to line segment XE.

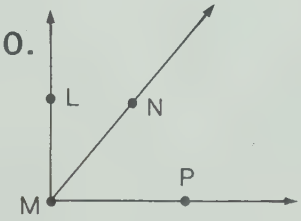
8. ray HF perpendicular to line JS.

Write two names for each angle shown.

9.



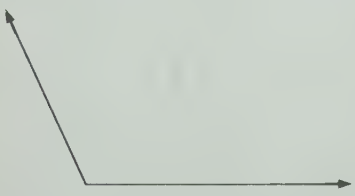
10.



11. Which two angles in Exercises 9 and 10 are congruent?

Use a protractor. Measure each angle.
Tell whether the angle is acute, right, or obtuse.

12.



13.

14.

Use a protractor. Draw an angle that measures

15. 60°.

16. 145°.

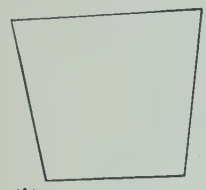
17. 8°.

NAME

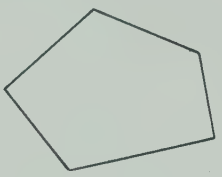
SPM5/U9/179

Polygons

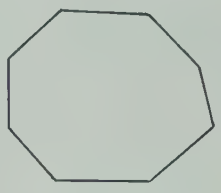
Tell whether the polygon is a triangle, a quadrilateral, a pentagon, a hexagon, or an octagon.

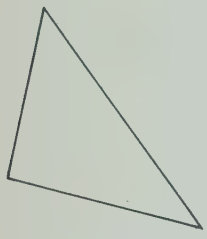
1. 

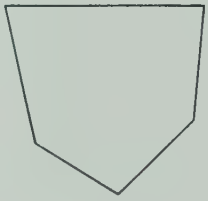
4 sides quadrilateral

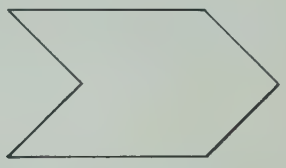
2. 

5 sides

3. 

4. 

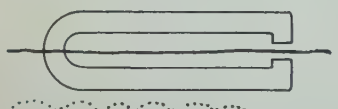
5. 

6. 

SPM5/U9/182-183

Line Symmetry

Draw, if possible, a line of symmetry for each picture. Use tracing paper if needed.

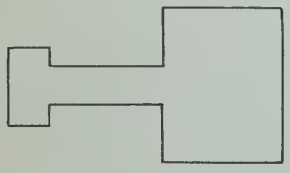
1. 

The top part matches the bottom part.

2.

Is the shape formed by two parts that match?

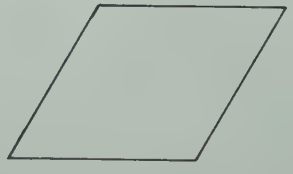
3.

4. 

5.

6.

7.

8. 

9.

NAME

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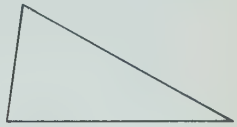
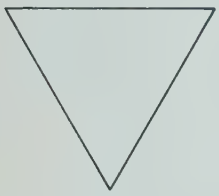
Triangles

Use tracing paper. Is the triangle scalene, isosceles, or equilateral?

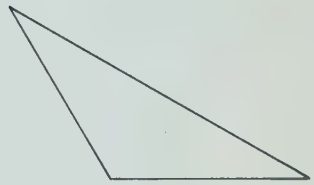
1.
two sides the same length
isosceles

2.
all three sides the same length

3. 

4. 

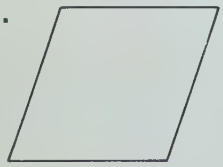
5.

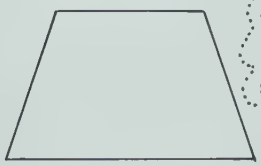
6. 

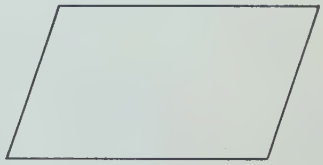
SPM5/U9/186-187

Quadrilaterals

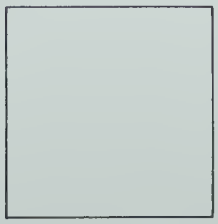
Which word best describes each quadrilateral:
trapezoid, parallelogram, rhombus, rectangle, or square.
Use tracing paper if needed.

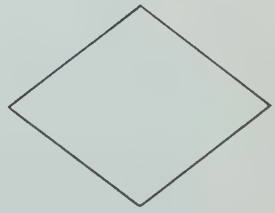
1. 
four sides the same length, no right angle
rhombus

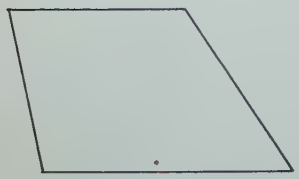
2. 
one pair of parallel sides

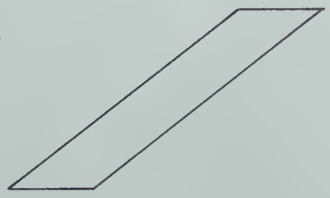
3. 

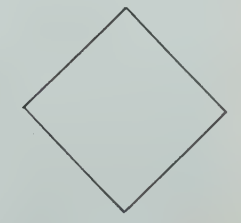
4.

5. 

6. 

7. 

8. 

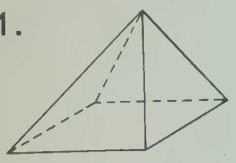
9. 

NAME

SPM5/U9/188-189

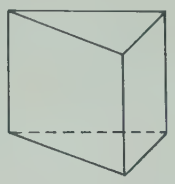
Pyramids and Prisms

Name the solid. Give the number of vertices, edges, and faces.

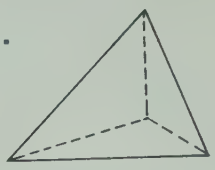
1. 

square pyramid

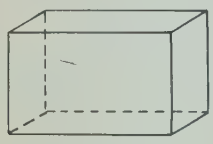
5 vertices
8 edges
5 faces

2. 

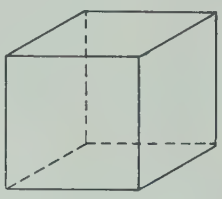
___ vertices
___ edges
___ faces

3. 

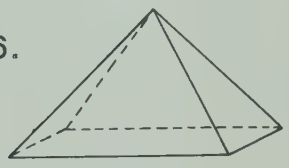
___ vertices
___ edges
___ faces

4. 

___ vertices
___ edges
___ faces

5. 

___ vertices
___ edges
___ faces

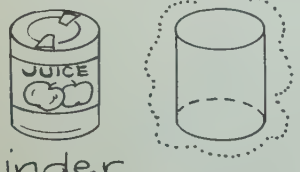
6. 

___ vertices
___ edges
___ faces

SPM5/U9/190

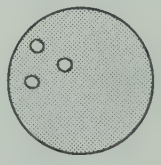
Cylinders, Spheres, and Cones

Does the shape suggest a cylinder, a sphere, or a cone?

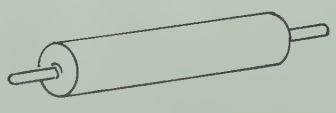
1. 

cylinder

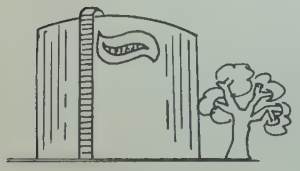
2.

3. 

4.

5. 

6.

7. 

8.

9.

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 274 \\ 906 \\ +\ 283 \end{array}$

2. $\begin{array}{r} 7006 \\ -\ 218 \end{array}$

3. $\begin{array}{r} 4.3 \\ \times 7.9 \end{array}$

4. $\begin{array}{r} \$16.05 \\ -\ 9.70 \end{array}$

5. $3\overline{)26\,040}$

6. $\begin{array}{r} 2471 \\ \times\ 24 \end{array}$

7. $\begin{array}{r} 42.39 \\ 16.71 \\ +\ 21.04 \end{array}$

8. $\begin{array}{r} 4.761 \\ -3.029 \end{array}$

9. $7\overline{)278}$

10. $\begin{array}{r} 5.3 \\ \times 0.6 \end{array}$

11. $7 \times 13 \times 281$

12. $9.48 - 0.75$

13. $\$19.46 + \$23.77$

14. 600×18

15. $35\,879 \div 4$

16. $23 + 418 + 2791$

Solve. Show your work.

17. How many square centimetres are there in a square that is 2.5 cm on each side?

18. Mrs. Bitteman hires Lucienne to work for 48 h at $2.75 per hour. How much money will she make?

19. The Heberts plan a trip to Moncton in June. The distance is about 2148 km. They plan to spend 4 d driving. About how far should they drive each day?

20. The bolt Mr. Squire bought is 10.4 cm long. The bolt he needs is 11.2 cm long. How much too short is the one he bought?

21. Amuk has saved $11.50. The baseball glove he wants is $13.49. How much more does Amuk need to save?

22. The daily temperatures at noon for one 4 d period were 28°C, 19°C, 25°C, and 24°C. Find the average noon temperature.

NAME

SPM5/U10/194-195

Dividing by a One-Digit Number

Divide.

1. 185 R2 8)1482 8 ← 8 x 1 68 64 ← 8 x 8 42 40 ← 8 x 5 2	2. 8 4)3342 ← 4 x 8	3. 5)2121	4. 6)5304

5. 7)648

6. 3)4160

7. 9)5697

8. 8)60 219

SPM5/U10/196-197

Zeros in the Quotient

Divide.

1. 406 4)1624 16 ← 4 x 4 024 24 ← 4 x 6 0	2. 5 5)2520 25 ← 5 x 5	3. 2)1806	4. 6)4218

5. 5)1516

6. 4)2807

7. 7)4914

8. 8)8440

9. 3)24 009

10. 9)19 881

11. 9)63 542

12. 6)36 060

NAME

SPM5/U10/199

Dividing Evenly by a Multiple of 10

Divide.

1. $50\overline{)4500}$ 90 450 ← 50 x 9 00	2. $70\overline{)4900}$ 7 ← 70 x 7	3. $60\overline{)4200}$	4. $40\overline{)32\,000}$

5. $30\overline{)2400}$ 6. $70\overline{)6300}$ 7. $80\overline{)560}$ 8. $20\overline{)6000}$

9. $40\overline{)16\,000}$ 10. $90\overline{)7200}$ 11. $60\overline{)12\,000}$ 12. $80\overline{)1600}$

SPM5/U10/200-201

Dividing by a Multiple of 10

Divide.

1. $40\overline{)1700}$ 42 R20 160 ← 40 x 4 100 80 40 x 2 20	2. $70\overline{)2200}$ 3 ← 70 x 3	3. $50\overline{)2915}$	4. $20\overline{)4520}$

5. $70\overline{)4562}$ 6. $50\overline{)4690}$ 7. $60\overline{)1023}$ 8. $80\overline{)13\,490}$

9. $30\overline{)1006}$ 10. $90\overline{)43\,768}$ 11. $40\overline{)32\,640}$ 12. $30\overline{)24\,210}$

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 2.719 \\ -1.834 \\ \hline \end{array}$

2. $\begin{array}{r} 4.8 \\ \times 6.9 \\ \hline \end{array}$

3. $30\overline{)42\,731}$

4. $\begin{array}{r} \$41.60 \\ 23.75 \\ +\ 19.93 \\ \hline \end{array}$

5. $4\overline{)8426}$

6. $\begin{array}{r} 5.731 \\ \times\ 9 \\ \hline \end{array}$

7. $\begin{array}{r} 73.61 \\ -24.95 \\ \hline \end{array}$

8. $40\overline{)163\,200}$

9. $\begin{array}{r} 768 \\ 2190 \\ +\ 431 \\ \hline \end{array}$

10. $\begin{array}{r} 200 \\ \times\ 13 \\ \hline \end{array}$

11. $6 \times 14 \times 38$

12. $27\,594 \div 20$

13. 8×3.647

14. $27\,153 \div 3$

15. $2741 + 186$

16. $\$9718 - \$2134$

Solve. Show your work.

17. It is costing the zoo $41.38 each month to feed its wombat. How much will 12 months of food cost?

18. Today the car is worth $1995. When new it cost $5875. How much has its value decreased?

19. The masses of 5 boys are 44 kg, 30 kg, 37 kg, 41 kg, and 43 kg. What is the average mass of the boys?

20. What is the area of a tennis court which is 18 m wide and 36 m long?

21. Sarah Kwon is in charge of 80 newspaper carriers. Her carriers deliver about 4400 papers. She tries to keep the sizes of the routes about equal. About how many newspapers does each carrier deliver?

22. Shin took 1080 pictures using 30 rolls of film. Each roll of film had the same number of pictures. How many pictures were from each roll?

NAME

SPM5/U10/202-203

Dividing by a Two-Digit Number

Divide.

1. $52\overline{)2147}$ 41 R15 208 67 52 15	2. $63\overline{)3452}$ 5 315	3. $51\overline{)6528}$	4. $71\overline{)6710}$	5. $81\overline{)851}$

6. $33\overline{)6980}$ 7. $93\overline{)4397}$ 8. $62\overline{)5332}$ 9. $42\overline{)15\,918}$ 10. $23\overline{)32\,546}$

SPM5/U10/204-205

Rounding the Divisor

Divide.

1. $62\overline{)4495}$ 72 R31 434 155 124 31	2. $57\overline{)1352}$ 2 114	3. $89\overline{)5384}$	4. $31\overline{)4233}$

5. $47\overline{)324}$ 6. $78\overline{)4556}$ 7. $38\overline{)213}$ 8. $41\overline{)6598}$

9. $87\overline{)210}$ 10. $18\overline{)80\,431}$ 11. $23\overline{)35\,420}$ 12. $66\overline{)49\,723}$

NAME

SPM5/U10/206-207

Dividing by a Two-Digit Number

Divide.

not 4 39 R10 1. 72)2818 216 658 648 10	not 5 6 2. 57)3584 342	3. 53)1542	4. 46)2852
5. 21)1002	6. 17)1343	7. 73)5767	8. 38)2742
9. 67)4816	10. 94)63 544	11. 88)6288	12. 52)25 220

SPM5/U10/208-209

Estimating the Quotient

Estimate each quotient.
Then divide to find the quotient.

18 R68 20 1. 73)1382 70)1400 73 652 584 68 Estimate first. Then divide.	2. 38)2403 40)2400 Estimate first. Then divide.	3. 92)4613
4. 69)5776	5. 52)1033	6. 68)41 820

NAME _____

Practice

Perform the indicated operation.

1. $30\,701 - 4\,682$

2. $\$47.88 \times 16$

3. $60\overline{)13\,980}$

4. $250 + 4297 + 16$

5. $42\overline{)4376}$

6. $7.913 - 2.824$

7. $84.68 + 19.75$

8. $27\,486 \times 7$

9. $42\,138 + 16\,912 + 8\,777$

10. $18\overline{)12\,580}$

11. $15 \times 23 \times 81$

12. 6.3×7.5

13. $2746 + 8271 + 4903$

14. $8243 \div 23$

15. $204.16 - 76.38$

16. $\$15.00 + \$8.43$

Solve. Show your work.

17. The area of a rectangular playing field is 1170 m^2. The width is 26 m. What is the length?

18. Each of 6 girls has 2 paper routes. Each route has 35 customers. How many customers are there in all?

19. In the 400-m race, the winner's time was 53.7 s. The second-place runner had a time of 57.5 s. By how many seconds did the winner defeat the second-place runner?

20. Three boys contributed to a charity. One gave \$0.75. Another gave \$1.20. The third gave \$2.43. What was their average donation?

21. Pita said the sum of 1396, 4238, and 716 is 6360. By how much was he wrong?

22. The width of a rectangle is 48 m. The length is 200 m. Find the area.

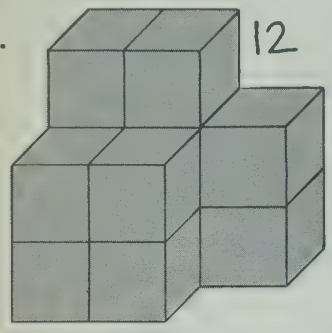
NAME

SPM5/U11/216

Counting Cubes

Count the cubes in each shape.

1. 12



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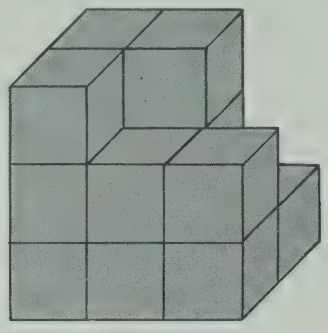

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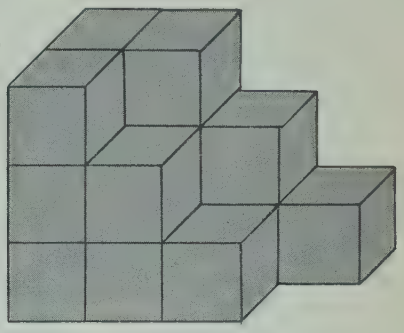

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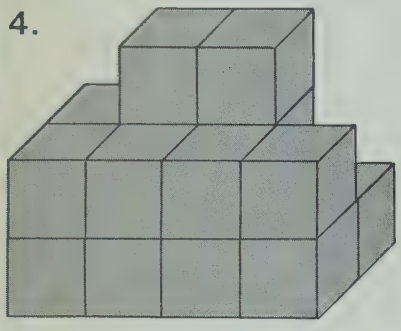

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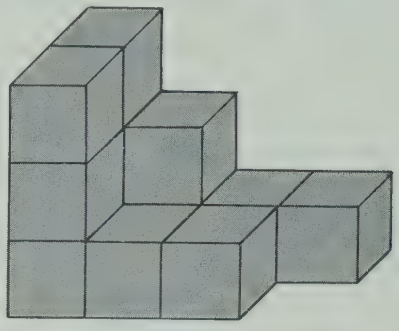

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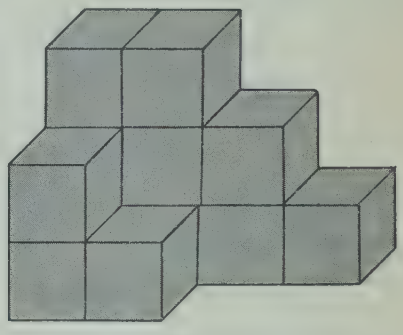
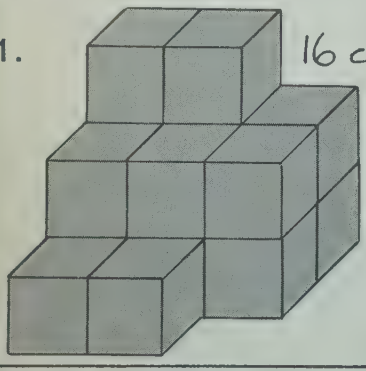


SPM5/U11/217

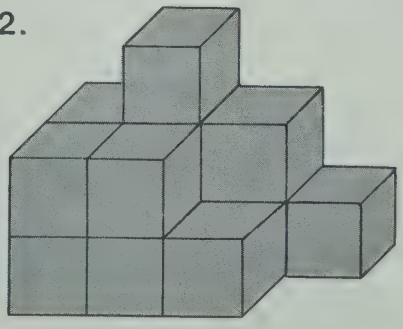
Volume in Cubic Centimetres

Find the volume in cubic centimetres.

1. 16 cm^3



2.



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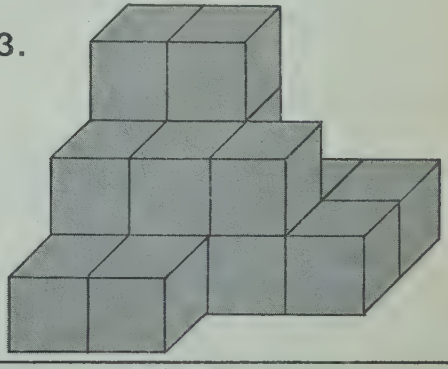

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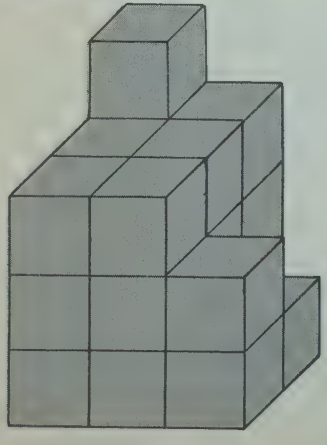

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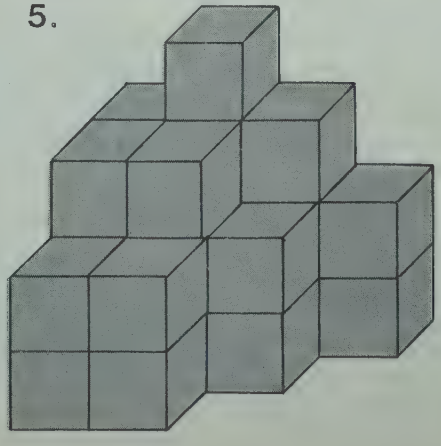

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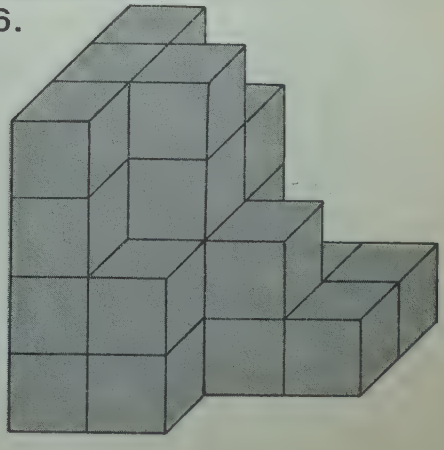
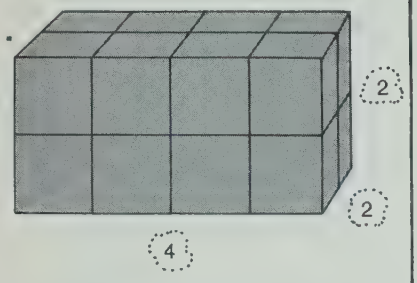


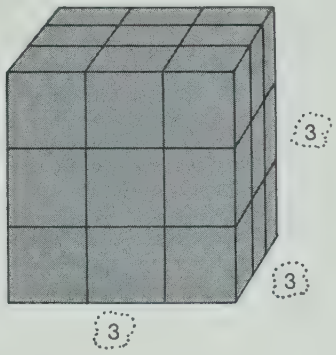
NAME

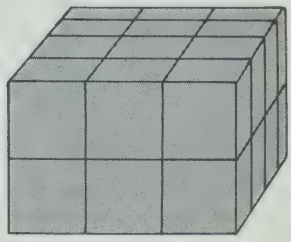
Volume of a Rectangular Prism

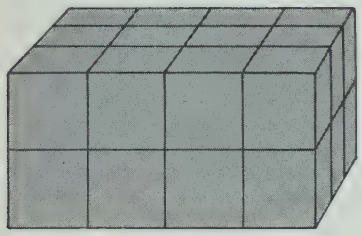
Use multiplication to find the volume in cubic centimetres.

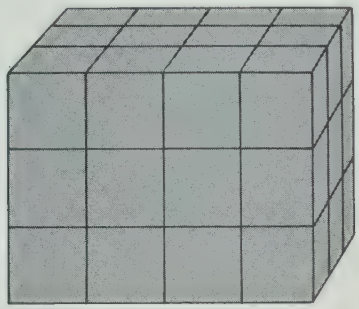
1. 

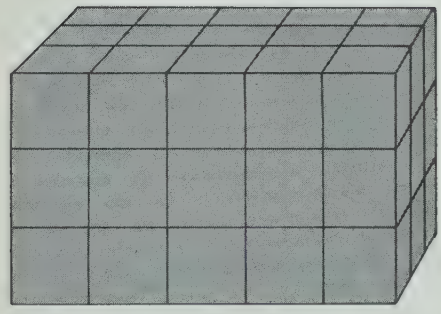
$4 \times 2 \times 2 = 16 \quad 16\,cm^3$

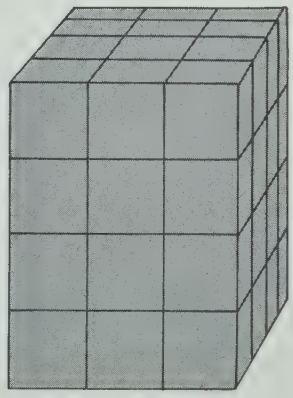
2. 

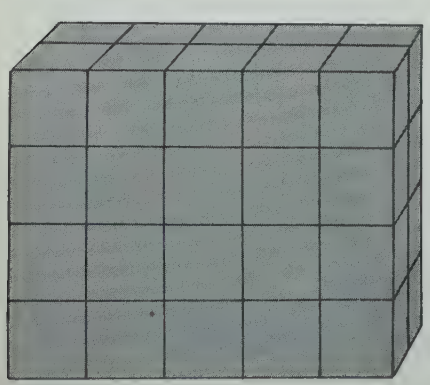
3. 

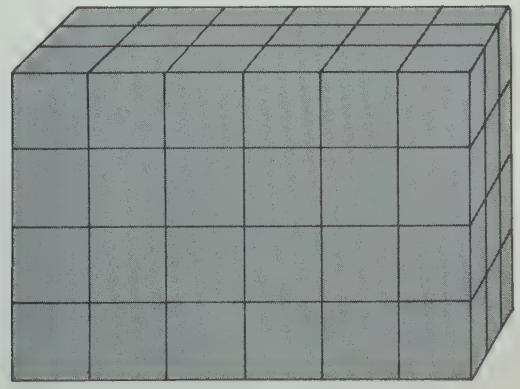
4. 

5. 

6. 

7. 

8. 

9. 

NAME

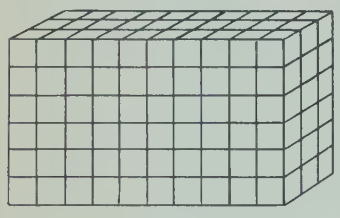
SPM5/U11/220-221

Cubic Centimetres and Litres

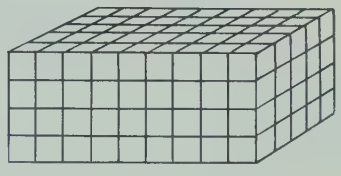
Complete.

1. 6 L take the same space as 6000 cm^3. (1 L fills 1000 cm^3.)	2. 2500 cm^3 take the same space as _____ L.	3. 0.9 L take the same space as _____ cm^3.
4. 15 000 cm^3 take the same space as _____ L.	5. 10.5 L take the same space as _____ cm^3.	6. 4208 cm^3 take the same space as _____ L.

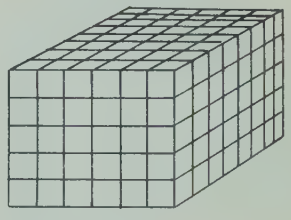
Each small cube represents one centimetre cube. Give the amount of space in all.

7. 

_____ cm^3 or _____ L

8. 

_____ cm^3 or _____ L

9. 

_____ cm^3 or _____ L

SPM5/U11/222-223

Capacity in Litres and Millilitres

Complete.

1. 7000 mL = 7 L (1000 mL = 1 L)	2. 8.9 L = _____ mL (1 L = 1000 mL)	3. 43 000 mL = _____ L
4. 5 L = _____ mL	5. 3000 mL = _____ L	6. 2.26 L = _____ mL
7. 600 mL = _____ L	8. 0.3 L = _____ mL	9. 1250 mL = _____ L

Choose the best estimate, 1 mL, 500 mL, or 1 L, for

10. the amount of milk in a large drinking glass.	11. the amount of medicine in a medicine dropper.	12. the amount of coffee in a coffee pot.
13. the amount of water frozen in a large hailstone.	14. the amount of soup in a large soup bowl.	15. the amount of water in a small fish bowl.

Cubic Centimetres and Millilitres

Complete.

1. 48 cm^3 take the same space as 48 mL.

$1\ cm^3$ and 1 mL take the same amount of space.

2. 350 mL take the same space as ____ cm^3.

3. 2750 mL take the same space as ____ cm^3.

4. 9 mL take the same space as ____ cm^3.

5. 100 cm^3 take the same space as ____ mL.

6. 5050 mL take the same space as ____ cm^3.

Complete each chart.

	cm^3	mL	L
7.	6000		
8.			4.4
9.		15 500	
10.			0.8
11.	3700		
12.		490	
13.			10.3
14.	17 250		
15.			3.06

Practice

Solve. Show your work.

1. During the day, a rental agency took in $1687 and returned deposits of $593. What was its income for the day?

2. The large parking lot has 780 cars in 26 rows. The rows all have the same number of cars. How many cars are in each row?

3. The driver of each of the 780 cars paid $2.25 to park for the day. How much did the drivers pay in all?

4. Overtime charges for the last 3 weeks have been $378, $294, and $512. What is the total?

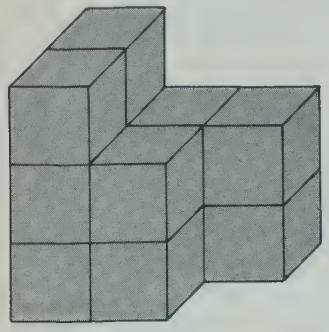
5. Renard has a stack of chips 4.81 cm high. He removes a chip 0.35 cm thick from the stack. How high is the stack now?

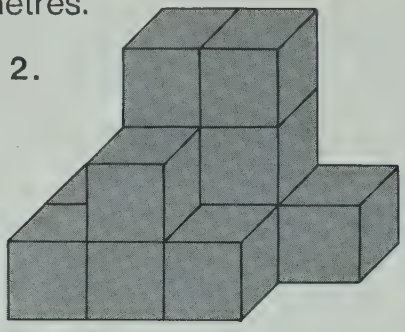
6. 2788 people entered the store. Of these, every fourth person bought a pair of jeans. How many pairs of jeans were sold?

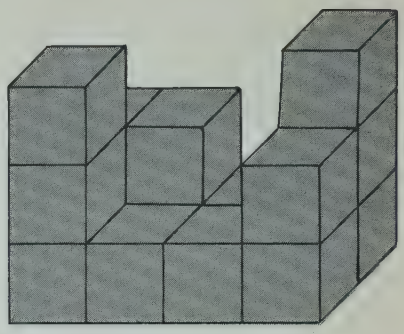
NAME _____

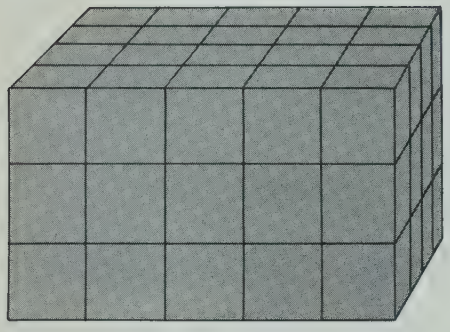
Practice

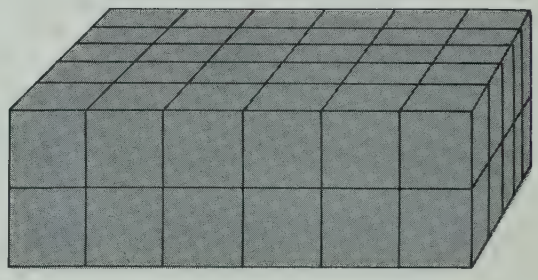
Find the volume in cubic centimetres.

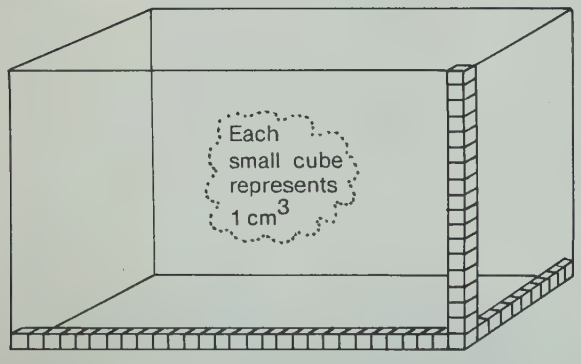
1. 

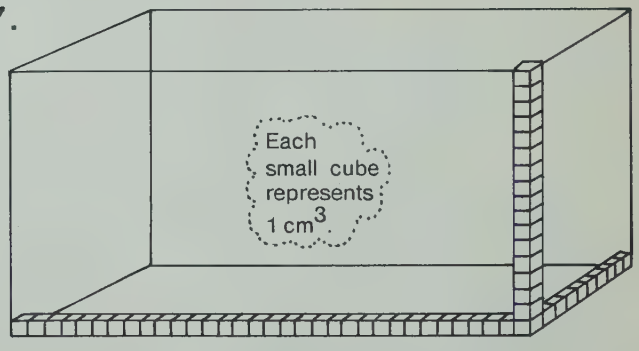
2. 

3. 

4. 

5. 

6. 

7. 

Complete.

8. 800 mL = _____ L

9. 7 L = _____ mL

10. 2500 mL = _____ L

11. 2 L take the same space as _____ cm^3

12. 470 cm^3 take the same space as _____ mL

13. 150 cm^3 take the same space as _____ L

14. 1150 mL take the same space as _____ cm^3

15. 0.67 L takes the same space as _____ cm^3

16. 4500 cm^3 take the same space as _____ L

17. The tank in Exercise 6 holds _____ mL or _____ L.

18. The tank in Exercise 7 holds _____ mL or _____ L.

NAME _____

SPM5/U11/226-227

Mass in Grams and Kilograms

Complete.

1. 4000 g = 4 kg 1000 g = 1 kg	2. 7.5 kg = _____ g 1 kg = 1000 g	3. 300 g = _____ kg
4. 4.8 kg = _____ g	5. 3500 g = _____ kg	6. 0.9 kg = _____ g
7. 1750 g = _____ kg	8. 2.53 kg = _____ g	9. 5005 g = _____ kg

Choose the best estimate, 1 g, 500 g, or 1 kg for

10. the mass of a deflated balloon.
11. the mass of a bar of soap.
12. the mass of a baseball glove.
13. the mass of the ice cubes in an ice cube tray.
14. the mass of a shoelace tip.
15. the mass of your shoe.

SPM5/U11/228-229

The Mass of Water

Complete.

1. The mass of 750 mL of water is 750 g. The mass of 1 mL of water is 1 g.	2. The mass of 3000 mL of water is _____ kg.	3. The mass of _____ L of water is 8 kg.
4. The mass of _____ mL of water is 1080 g.	5. The mass of 0.6 L of water is _____ kg.	6. The mass of _____ mL of water is 3.63 kg.
7. The mass of 1.88 L of water is _____ kg.	8. The mass of 980 mL of water is _____ kg.	9. The mass of _____ mL of water is 76 g.

10. The volume of a container is 2500 cm^3. To fill the container _____ mL, or _____ L, of water are needed. The mass of the water would be _____ g, or _____ kg.

11. The mass of the water in a container is 5.32 kg. The container holds _____ L or _____ cm^3.

NAME

SPM5/U11/230-231

The 24-Hour Clock

Write the time shown on the clock.

1.

when school is over. 15:05:52 (after noon!)

2.

when it is time to get up. (before noon!)

3.

when it is time for school recess.

4.

when the "late news" is on TV.

5.

before lunch.

6.

when I have my homework finished

Complete.

7. When it is 2 h 10 min 40 s after 11:30:10, the time is _____ .

8. When it is 6 h 16 min 23 s earlier than 22:40:30, the time is _____ .

SPM5/U11/232

Numeric Dating

Write the date in another way.

1. 1983 08 07 (The 8th month is August.)

August 7, 1983

2. July 12, 1932 (July is the ___ month.)

3. 1907 12 10

4. September 23, 1945

5. 1929 01 30

6. March 28, 1962

7. 1910 11 12

8. February 29, 1984

9. 1999 10 31

10. April 1, 2000

11. 1575 06 06

12. May 13, 1820

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 234.7 \\ 819.6 \\ +\ 50.1 \\ \hline \end{array}$

2. $\begin{array}{r} \$17.02 \\ -\ 9.46 \\ \hline \end{array}$

3. $\begin{array}{r} 23.7 \\ \times\ 5 \\ \hline \end{array}$

4. $7\overline{)3104}$

5. $\begin{array}{r} \$42.68 \\ \times\ 3 \\ \hline \end{array}$

6. $\begin{array}{r} 8.962 \\ -1.378 \\ \hline \end{array}$

7. $\begin{array}{r} \$27\,586 \\ +\ 19\,473 \\ \hline \end{array}$

8. $31\overline{)846}$

9. $\begin{array}{r} 0.76 \\ \times\ 3.9 \\ \hline \end{array}$

10. $\begin{array}{r} 54.600 \\ -29.831 \\ \hline \end{array}$

11. 279×16

12. $62\,381 \div 5$

13. $\$278 + \$49 + \$1031$

14. $12 \times 137 \times 4$

15. $18.91 - 5.62$

16. $4231 \div 20$

Solve. Show your work.

17. Each small cassette holds tape for 27 min of play. How many minutes would 13 small cassettes hold?

18. The case of motor oil costs $32.40. There are 24 cans in the case. What is the cost of each can?

19. 5638 pairs of shoes are stored in the warehouse. In one week 2796 pairs are shipped out. How many remain?

20. Every 25th person through the turnstile at the fair will get a prize. 3756 people come to the fair. How many prizes are given away?

21. Sheet music for the band will cost $1.25 for each piece. The band will play 3 pieces. Each of the 35 members of the band needs a copy. How much will the sheet music cost?

22. Sol times the acts of the play. The first act takes 21 min. The second act takes 32 min. The third act takes 19 min. What is the average length of each act?

NAME

SPM5/U12/238-239

Sharing Ones and Tenths

Divide. Remember to place the decimal point in the quotient.

1. $2\overline{)4.8}$ 2.4 4 ← 2 x 2 08 8 2 x 4 tenths 0	2. $3\overline{)6.6}$ 2 ← 3 x 2	3. $5\overline{)5.5}$	4. $4\overline{)4.8}$

5. $3\overline{)9.6}$ 6. $4\overline{)8.4}$ 7. $3\overline{)3.6}$ 8. $2\overline{)4.2}$ 9. $2\overline{)8.8}$

SPM5/U12/240-241

Dividing Ones and Tenths with Regrouping

Divide.

1. $4\overline{)9.2}$ 2.3 8 ← 4 x 2 12 12 4 x 3 tenths 0	2. $6\overline{)7.8}$ 1 ← 6 x 1	3. $3\overline{)7.5}$	4. $7\overline{)16.1}$

5. $2\overline{)7.2}$ 6. $5\overline{)8.5}$ 7. $3\overline{)8.4}$ 8. $4\overline{)7.6}$ 9. $2\overline{)9.8}$

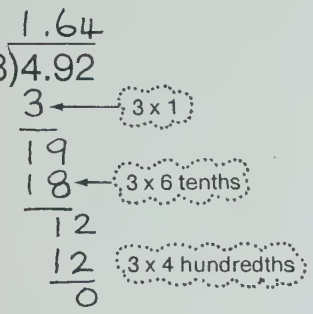
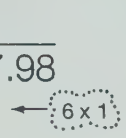
10. $3\overline{)5.1}$ 11. $7\overline{)32.2}$ 12. $9\overline{)48.6}$ 13. $8\overline{)29.6}$ 14. $6\overline{)20.4}$

NAME

SPM5/U12/242-243

Dividing Hundredths and Thousandths

Divide.

1. $3\overline{)4.92}$ 	2. $6\overline{)7.98}$ 	3. $4\overline{)9.736}$	4. $2\overline{)\$7.34}$

5. $3\overline{)8.94}$ 6. $7\overline{)9.03}$ 7. $6\overline{)33.6}$ 8. $4\overline{)9.12}$ 9. $8\overline{)9.28}$

10. $5\overline{)9.205}$ 11. $9\overline{)\$18.63}$ 12. $8\overline{)9.432}$ 13. $7\overline{)\$23.94}$

Practice

Solve. Show your work.

1. Don bought 3 cans of fruit, all the same size. The total mass was 680.4 g. What was the mass of each can?

2. Charlotte's teacher bought 6 jars of paste for $4.68. How much was the paste per jar?

3. Crystal works as a packer at a factory. In each box she puts 12 bulbs on one layer and makes 5 layers. Then she puts 16 boxes in a carton. How many bulbs are in each carton?

4. Each of the 4 members of the women's relay team ran her leg of the race in 32.4 s. What was the total time in minutes and seconds?

NAME _____

Practice

Perform the indicated operation.

1.
$$\begin{array}{r} 273 \\ 9218 \\ +\ 67 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 27\,394 \\ \times\ 5 \\ \hline \end{array}$$

3. $9\overline{)29.16}$

4.
$$\begin{array}{r} 14.237 \\ -\ 6.901 \\ \hline \end{array}$$

5. $3\overline{)25\,186}$

6.
$$\begin{array}{r} \$27.34 \\ 49.16 \\ +\ 80.08 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 47\,003 \\ -\ 9\,285 \\ \hline \end{array}$$

8. $6\overline{)\$24.48}$

9.
$$\begin{array}{r} 7.86 \\ \times\ 8 \\ \hline \end{array}$$

10. $23\overline{)481}$

11. $7 \times 13 \times 283$

12. $6.423 + 7.915$

13. $\$5713 - \$896$

14. $85.6 \div 4$

15. 7.3×8.9

16. $36.617 \div 7$

Solve. Show your work.

17. Dominic makes a "train" of dominoes. He puts 38 dominoes end to end. Each domino is 3.18 cm long. How long is his train?

18. Ginger puts a letter with a mass of 13.4 g into an envelope of mass 9.7g. What is the total mass?

19. A boating team hopes to travel 1980 km on a river in about 60 d. What is the average number of kilometres per day that it should plan to travel?

20. Ron's time for the four 100-m practice races he ran were 11.3 s, 12.1 s, 11.8 s, and 11.2 s. What was his average time for the 100-m race?

21. After the rainy season, the level of the reservoir was at the 21.46-m mark. Before the rains, the level was at the 9.78-m mark. By how much has the level increased?

22. On a shopping trip for new school clothes, Bette's mother spent $27.18 for a dress and $19.66 for shoes. She also bought 2 sweaters for $13.50 each . How much did she spend in all?

NAME

SPM5/U12/245

Quotients Less Than 1

Divide.

1. $4\overline{)3.56}$ 0.89 32 ← 4 x 8 tenths 36 36 4 x 9 hundredths 0	2. $5\overline{)2.70}$ 0.5 ← 5 x 5 tenths	3. $6\overline{)5.28}$	4. $9\overline{)3.33}$

5. $2\overline{)1.36}$ 6. $3\overline{)\$2.01}$ 7. $8\overline{)3.464}$ 8. $7\overline{)5.313}$ 9. $9\overline{)5.481}$

SPM5/U12/246-247

Using More Decimal Places

Divide. Use more zeros when needed.

1. $6\overline{)9.0}$ 1.5 6 ← 6 x 1 30 30 6 x 5 tenths 0	2. $8\overline{)6.0}$ 0.7 ← 8 x 7 tenths	3. $2\overline{)5.9}$	4. $4\overline{)\$9}$

5. $2\overline{)0.25}$ 6. $5\overline{)4}$ 7. $6\overline{)13.5}$ 8. $4\overline{)1.8}$ 9. $5\overline{)\$8}$

10. $8\overline{)\$38}$ 11. $5\overline{)9.2}$ 12. $4\overline{)7}$ 13. $5\overline{)11.1}$ 14. $8\overline{)11}$

NAME

SPM5/U12/250-251

Dividing by a Two-Digit Number

Divide.

1. $32\overline{)89.6}$ → 2.8; 64 (32 x 2); 256; 256 (32 x 8); 0	2. $41\overline{)229.6}$ → 5; 205 (41 x 5)	3. $39\overline{)282.75}$	4. $16\overline{)52.0}$

5. $26\overline{)27.3}$

6. $14\overline{)44.94}$

7. $32\overline{)23.04}$

8. $42\overline{)\$169.68}$

6. $12\overline{)6.9}$

10. $65\overline{)47.515}$

11. $88\overline{)129.8}$

12. $96\overline{)264}$

Practice

Solve. Show your work.

1. Uncle Jack gives his 4 nieces $5 and tells them to share equally. How much will each get?

2. In 1979, oceanographers found a ship which sank in 1812. For how many years had it been under water?

3. Becky lives in a big apartment complex. The Towers Building houses 815 people. The Garden Mall holds 581 people. Rose Court has 250 people. Altogether, how many live in the 3 buildings?

4. Lisa measured the mass of each of 4 eggs from a nest. They were 18.3 g, 19.2 g, 17.0 g, and 18.6 g. What was the average mass?

NAME _____

Practice

Perform the indicated operation.

1. 2730 + 981 + 46

2. $19.06 − 7.15

3. $18\overline{)4.14}$

4. 7.2 × 4.6

5. $4\overline{)6}$

6. $28.31 × 143

7. 214.3 + 91.7 + 80.5

8. 43.00 − 16.41

9. 2971 × 8

10. $15\overline{)\$35.25}$

11. 41 x 30 x 29

12. 100 x 4.316

13. 9.84 − 7.71

14. 4.9 x 7.8

15. 11 ÷ 4

16. 4913 + 8207 + 775

Solve. Show your work.

17. Mrs. Hrenko charges $315 for each day she serves as a consultant. One job lasted 13 d. How much did Mrs. Hrenko charge?

18. The druggist divided 262 g of medicine equally among 8 bottles. How many grams of medicine were put into each bottle?

19. A packer puts 24 cans, each with a mass of 215 g, in a carton of mass 1200 g. What will be the total mass?

20. Professor O'Leary bought 12 copies of the same book for $23.76. What was the cost per book?

21. At the bottom of the fish ladder the scientist reported 781 salmon attempting the climb. Another observer at the top reported 537 salmon arrived. How many fish failed in the attempt?

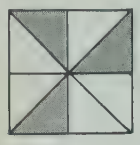
22. Use of the park swimming pool was 781, 1296, 1572, and 809 people for the four weekends in July. Altogether, how many people used the pool on those weekends?

NAME

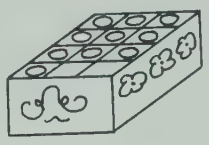
SPM5/U13/258-259

Writing Fractions

Complete each sentence with a fraction.

1. 

$\frac{3}{8}$ of the square is shaded.

2. 

___ of the box is filled.

3.

___ of the bananas are peeled.

4.

___ of the eggs are broken.

5.

___ of the faces are happy.

6.

___ of the pie is gone.

7. The fraction ___ has numerator 2 and denominator 3.

8. The fraction ___ has numerator 3 and denominator 7.

Practice

Solve. Show your work.

1. Gil measured the length of the bar as 21.04 cm. Later Andy measured it as 21.89 cm. By how much did their measurements differ?

2. 7 people in an office gave $22.75 for a gift. What was the average amount given by each?

3. The times of the four runners in the shuttle race were 12.7 s, 14.6 s, 11.1 s, and 12.3 s. What was the total team time?

4. This week the post office processed 138 500 pieces of mail. Last week, it processed 127 600 pieces. How many more were processed this week?

5. Together the 5 boys sold 685 newspapers. If each boy sold an equal amount, how many did each sell?

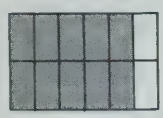
6. Tammy's test scores were 62, 87, and 91. After the 3 tests, what was her average score?

NAME

SPM5/U13/260-261

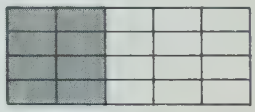
Equivalent Fractions

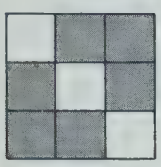
Write two equivalent fractions for each picture.

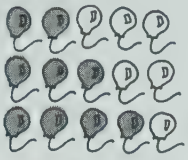
1.  $\frac{10}{12}, \frac{5}{6}$

2. $\frac{6}{8},$

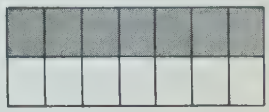
3.

4. 

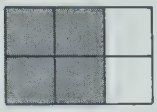
5. 

6. 

7.

8. 

9.

10. 

11.

12.

SPM5/U13/262

Finding Equivalent Fractions

Multiply or divide to find equivalent fractions.

1. | | | | |
|---|---|---|---|
| | 3 x 2 | 3 x 3 | 3 x 4 |
| $\frac{3}{4}$ | $\frac{6}{8}$ | $\frac{9}{12}$ | $\frac{12}{16}$ |
| | 4 x 2 | 4 x 3 | 4 x 4 |

2. | | | | |
|---|---|---|---|
| | 72 ÷ 2 | ÷ 2 | ÷ 3 |
| $\frac{72}{108}$ | $\frac{36}{54}$ | $\frac{18}{\ }$ | |
| | 108 ÷ 2 | ÷ 2 | ÷ 3 |

3. | | | | |
|---|---|---|---|
| | 2 x 2 | 2 x 3 | 2 x 4 |
| $\frac{2}{3}$ | | | |
| | 3 x 2 | 3 x 3 | 3 x 4 |

4. | | | | |
|---|---|---|---|
| | 3 x 2 | 3 x 3 | 3 x 4 |
| $\frac{3}{7}$ | | | |
| | 7 x 2 | 7 x 3 | 7 x 4 |

5. | | | | |
|---|---|---|---|
| | 1 x 2 | 1 x 3 | 1 x 4 |
| $\frac{1}{4}$ | | | |
| | 4 x 2 | 4 x 3 | 4 x 4 |

6. | | | | |
|---|---|---|---|
| | ÷ 2 | ÷ 2 | ÷ 3 |
| $\frac{24}{36}$ | | | |
| | ÷ 2 | ÷ 2 | ÷ 3 |

7. | | | | |
|---|---|---|---|
| | ÷ 3 | ÷ 2 | ÷ 2 |
| $\frac{24}{36}$ | | | |
| | ÷ 3 | ÷ 2 | ÷ 2 |

8. | | | | |
|---|---|---|---|
| | 2 x 2 | 2 x 3 | 2 x 4 |
| $\frac{2}{9}$ | | | |
| | 9 x 2 | 9 x 3 | 9 x 4 |

9. | | | | |
|---|---|---|---|
| | ÷ 2 | ÷ 3 | ÷ 5 |
| $\frac{30}{60}$ | | | |
| | ÷ 2 | ÷ 3 | ÷ 5 |

10. | | | | |
|---|---|---|---|
| | ÷ 2 | ÷ 3 | ÷ 7 |
| $\frac{126}{168}$ | | | |
| | ÷ 2 | ÷ 3 | ÷ 7 |

11. | | | | |
|---|---|---|---|
| | 5 x 2 | 5 x 3 | 5 x 4 |
| $\frac{5}{6}$ | | | |
| | 6 x 2 | 6 x 3 | 6 x 4 |

12. | | | | |
|---|---|---|---|
| | ÷ 5 | ÷ 3 | ÷ 3 |
| $\frac{90}{225}$ | | | |
| | ÷ 5 | ÷ 3 | ÷ 3 |

NAME

SPM5/U13/263

Finding the Missing Term

Find the missing term.

1. $\frac{2}{3} = \frac{6}{9}$ (2×3, 3×3)	2. $\frac{9}{12} = \frac{3}{\square}$ (9÷3, 12÷3)	3. $\frac{12}{27} = \frac{\square}{9}$	4. $\frac{1}{4} = \frac{4}{\square}$
5. $\frac{2}{5} = \frac{\square}{25}$	6. $\frac{1}{2} = \frac{\square}{12}$	7. $\frac{3}{4} = \frac{\square}{16}$	8. $\frac{30}{35} = \frac{\square}{7}$
9. $\frac{36}{48} = \frac{\square}{4}$	10. $\frac{1}{3} = \frac{3}{\square}$	11. $\frac{12}{18} = \frac{2}{\square}$	12. $\frac{9}{72} = \frac{\square}{8}$
13. $\frac{12}{28} = \frac{3}{\square}$	14. $\frac{3}{8} = \frac{\square}{32}$	15. $\frac{5}{6} = \frac{20}{\square}$	16. $\frac{7}{14} = \frac{\square}{2}$

17.

$\frac{\square}{5}$	$\frac{2}{\square}$	$\frac{3}{15}$	$\frac{4}{\square}$	$\frac{\square}{25}$

18.

$\frac{25}{\square}$	$\frac{\square}{24}$	$\frac{15}{18}$	$\frac{\square}{12}$	$\frac{5}{\square}$

SPM5/U13/264

Checking for Equivalent Fractions

Find the cross products.
Are the fractions equivalent?

1. $\frac{2}{7}, \frac{4}{14}$ 7×4=28, 2×14=28, yes	2. $\frac{3}{5}, \frac{6}{8}$ 5×6, 3×8	3. $\frac{3}{8}, \frac{3}{9}$	4. $\frac{18}{24}, \frac{6}{8}$
5. $\frac{2}{5}, \frac{6}{15}$	6. $\frac{3}{5}, \frac{8}{15}$	7. $\frac{7}{10}, \frac{14}{20}$	8. $\frac{24}{28}, \frac{6}{7}$
9. $\frac{8}{10}, \frac{7}{9}$	10. $\frac{10}{12}, \frac{50}{60}$	11. $\frac{7}{8}, \frac{5}{6}$	12. $\frac{3}{4}, \frac{9}{16}$
13. $\frac{16}{30}, \frac{8}{15}$	14. $\frac{15}{36}, \frac{25}{60}$	15. $\frac{16}{30}, \frac{3}{5}$	16. $\frac{7}{30}, \frac{14}{60}$
17. $\frac{4}{5}, \frac{5}{6}$	18. $\frac{8}{14}, \frac{12}{21}$	19. $\frac{6}{9}, \frac{4}{6}$	20. $\frac{9}{15}, \frac{8}{10}$

NAME

SPM5/U13/265

Finding the Missing Term Using Cross Products

Use cross products to find the missing term.

1. $\frac{2}{3} = \frac{60}{90}$ $3 \times ? = 2 \times 90$ $3 \times ? = 180$ $3 \times 60 = 180$	2. $\frac{3}{4} = \frac{6}{__}$ $3 \times ? = 4 \times 6$ $3 \times ? = 24$	3. $\frac{4}{9} = \frac{__}{18}$	4. $\frac{8}{32} = \frac{__}{20}$

5. $\frac{3}{10} = \frac{6}{__}$

6. $\frac{3}{__} = \frac{9}{15}$

7. $\frac{24}{28} = \frac{6}{__}$

8. $\frac{__}{4} = \frac{9}{36}$

9. $\frac{15}{36} = \frac{__}{12}$

10. $\frac{21}{30} = \frac{__}{10}$

11. $\frac{14}{36} = \frac{7}{__}$

12. $\frac{2}{9} = \frac{8}{__}$

13. $\frac{21}{35} = \frac{3}{__}$

14. $\frac{16}{20} = \frac{4}{__}$

15. $\frac{15}{27} = \frac{__}{18}$

16. $\frac{12}{__} = \frac{16}{28}$

SPM5/U13/266-267

Comparing Fractions

Use $>$, $<$, or $=$ to make true statements.

1. $\frac{5}{6} > \frac{3}{6}$ common denominators; 5 is greater than 3	2. $\frac{2}{3} __ \frac{3}{5}$ $\frac{10}{15}$ $\frac{9}{15}$	3. $\frac{1}{7} __ \frac{2}{5}$	4. $\frac{2}{7} __ \frac{1}{3}$

5. $\frac{2}{5} __ \frac{1}{10}$

6. $\frac{2}{9} __ \frac{2}{3}$

7. $\frac{3}{8} __ \frac{1}{4}$

8. $\frac{4}{5} __ \frac{5}{6}$

9. $\frac{3}{7} __ \frac{1}{4}$

10. $\frac{3}{11} __ \frac{2}{7}$

11. $\frac{7}{8} __ \frac{5}{7}$

12. $\frac{3}{4} __ \frac{7}{9}$

13. $\frac{2}{3} __ \frac{5}{8}$

14. $\frac{3}{7} __ \frac{9}{21}$

15. $\frac{3}{5} __ \frac{3}{4}$

16. $\frac{3}{8} __ \frac{2}{5}$

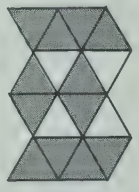
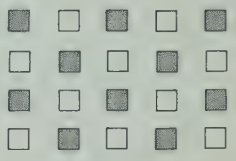
NAME _____

Practice

Complete each sentence with a fraction.

1. In the word Montreal, ____ of the letters are vowels.
2. In the word Vancouver, ____ of the letters are consonants.
3. The fraction ____ has denominator 9 and numerator 5.
4. If is $\frac{1}{4}$, draw a shape to show 1.

Write two equivalent fractions for each picture.

5.
6. 
7. 

Multiply or divide to find equivalent fractions.

8. $\frac{3}{5} = \frac{\times 2}{\times 2} = \frac{\times 3}{\times 3} = \frac{\times 4}{\times 4} = \frac{\times 5}{\times 5}$
9. $\frac{27}{45} = \frac{\div 3}{\div 3} = \frac{\div 3}{\div 3}$
10. $\frac{2}{7} = \frac{\times 2}{\times 2} = \frac{\times 3}{\times 3} = \frac{\times 4}{\times 4} = \frac{\times 5}{\times 5}$
11. $\frac{36}{96} = \frac{\div 2}{\div 2} = \frac{\div 3}{\div 3} = \frac{\div 2}{\div 2}$

Find the missing term.

12. $\frac{14}{28} = \frac{_}{2}$
13. $\frac{4}{5} = \frac{_}{40}$
14. $\frac{20}{24} = \frac{5}{_}$
15. $\frac{25}{35} = \frac{_}{7}$

Find the cross products.
Are the fractions equivalent?

16. $\frac{3}{7}, \frac{18}{24}$
17. $\frac{4}{5}, \frac{16}{24}$
18. $\frac{4}{6}, \frac{20}{30}$
19. $\frac{10}{15}, \frac{18}{40}$
20. $\frac{24}{32}, \frac{27}{36}$

Use cross products to find the missing term.

21. $\frac{9}{27} = \frac{_}{3}$
22. $\frac{10}{18} = \frac{15}{_}$
23. $\frac{21}{49} = \frac{_}{63}$
24. $\frac{9}{12} = \frac{27}{_}$

Show equivalent fractions with like denominators.
Then use $<$, $>$, or $=$ to make true statements.

25. $\frac{2}{3} __ \frac{7}{9}$
26. $\frac{9}{12} __ \frac{3}{4}$
27. $\frac{7}{12} __ \frac{3}{4}$
28. $\frac{1}{3} __ \frac{2}{7}$
29. $\frac{6}{7} __ \frac{7}{9}$
30. $\frac{2}{7} __ \frac{5}{12}$
31. $\frac{4}{7} __ \frac{3}{5}$
32. $\frac{2}{9} __ \frac{1}{6}$

NAME

SPM5/U13/268-269

Changing to Improper Fractions

Change to improper fractions.

1. $2\frac{2}{7}$ $\frac{16}{7}$ $\frac{2\times7+2}{7}=\frac{16}{7}$	2. $5\frac{3}{5}$ $\frac{5\times5+3}{5}$	3. $1\frac{1}{7}$	4. $2\frac{1}{4}$	5. $7\frac{5}{8}$

6. $4\frac{3}{8}$	7. $2\frac{2}{3}$	8. $4\frac{5}{8}$	9. $6\frac{1}{5}$	10. $8\frac{2}{9}$
11. $2\frac{2}{7}$	12. $4\frac{2}{9}$	13. $1\frac{1}{3}$	14. $3\frac{1}{9}$	15. $10\frac{2}{5}$

Complete.

16. $3 = \frac{\quad}{2} = \frac{\quad}{3} = \frac{\quad}{4} = \frac{\quad}{5}$

17. $6 = \frac{\quad}{2} = \frac{\quad}{3} = \frac{\quad}{4} = \frac{\quad}{5}$

18. $4 = \frac{\quad}{2} = \frac{\quad}{3} = \frac{\quad}{4} = \frac{\quad}{5}$

19. $5 = \frac{\quad}{2} = \frac{\quad}{3} = \frac{\quad}{4} = \frac{\quad}{5}$

SPM5/U13/270-271

Changing Improper Fractions

Replace each improper fraction by a number in mixed form, or by a whole number.

1. $\frac{7}{3}$ $2\frac{1}{3}$ $3\overline{)7}$ 2 R1, $\frac{6}{1}$	2. $\frac{9}{2}$ $2\overline{)9}$	3. $\frac{50}{7}$	4. $\frac{37}{4}$	5. $\frac{35}{7}$

6. $\frac{11}{4}$	7. $\frac{9}{5}$	8. $\frac{27}{4}$	9. $\frac{15}{5}$	10. $\frac{67}{8}$
11. $\frac{22}{3}$	12. $\frac{42}{7}$	13. $\frac{11}{3}$	14. $\frac{21}{4}$	15. $\frac{17}{3}$
16. $\frac{36}{9}$	17. $\frac{29}{5}$	18. $\frac{17}{10}$	19. $\frac{42}{6}$	20. $\frac{50}{12}$
21. $\frac{20}{2}$	22. $\frac{38}{8}$	23. $\frac{53}{6}$	24. $\frac{110}{10}$	25. $\frac{100}{12}$

NAME

SPM5/U13/272-273

Adding Fractions

Add. Regroup the sum when it shows an improper fraction.

1. $7\frac{2}{9}$ + $1\frac{8}{9}$ = $8\frac{10}{9}$ or $9\frac{1}{9}$

2. $11\frac{6}{7}$ + $2\frac{5}{7}$ = $\frac{11}{7}$

3. $2\frac{1}{3}$ + $9\frac{1}{3}$ =

4. $2\frac{5}{9}$ + $4\frac{8}{9}$ =

5. $\frac{8}{10}$ + $\frac{3}{10}$ =

6. $3\frac{2}{9}$ + $4\frac{5}{9}$ =

7. $4\frac{2}{3}$ + $6\frac{1}{3}$ =

8. $\frac{9}{10}$ + $\frac{7}{10}$ =

9. $4\frac{2}{5}$ + 4 =

10. $2\frac{7}{8}$ + $4\frac{3}{8}$ =

11. $2\frac{5}{12} + 4\frac{7}{12}$

12. $2\frac{5}{6} + 5\frac{5}{6}$

13. $3\frac{3}{4} + 4\frac{3}{4}$

SPM5/U13/274-275

Subtracting Fractions

Subtract.

1. $7\frac{3}{5} \rightarrow 6\frac{8}{5}$
   $2\frac{4}{5} \rightarrow 2\frac{4}{5}$
   $4\frac{4}{5}$

2. $6\frac{1}{3} \rightarrow 5\frac{4}{3}$
   $4\frac{2}{3}$

3. 6
   $2\frac{1}{2}$

4. $1\frac{2}{7}$
   $\frac{3}{7}$

5. $2\frac{1}{4}$
   $\frac{3}{4}$

6. $5\frac{2}{9}$
   $1\frac{4}{9}$

7. $7\frac{1}{10}$
   $3\frac{3}{10}$

8. $9\frac{3}{4}$
   $1\frac{1}{4}$

9. $6 - 3\frac{1}{5}$

10. $9\frac{1}{9} - 2\frac{8}{9}$

11. $8\frac{3}{8} - 2\frac{7}{8}$

12. $3\frac{1}{3} - 1\frac{2}{3}$

13. $7\frac{1}{10} - 4\frac{7}{10}$

14. $6\frac{5}{6} - 4$

NAME

SPM5/U13/278-279

Another Look at Finding the Missing Term

Find each of these. Use other paper if needed.

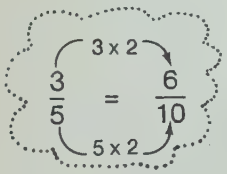
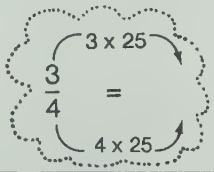
1. $\frac{2}{5}$ of 15 6 $5\overline{)15}$ $\frac{3}{}$ $\frac{1}{5}$ of 15 = 3 $\frac{2}{5}$ of 15 = 6	2. $\frac{3}{4}$ of 12 $4\overline{)12}$ $\frac{3}{}$ $\frac{1}{4}$ of 12 = ___	3. $\frac{1}{3}$ of 24	4. $\frac{5}{6}$ of 18

5. $\frac{2}{3}$ of 24	6. $\frac{3}{10}$ of 40	7. $\frac{3}{5}$ of 60	8. $\frac{2}{9}$ of 27
9. $\frac{4}{5}$ of 35	10. $\frac{3}{8}$ of 48	11. $\frac{5}{9}$ of 72	12. $\frac{6}{7}$ of 42
13. $\frac{7}{10}$ of 100	14. $\frac{5}{12}$ of 144	15. $\frac{2}{7}$ of 56	16. $\frac{5}{6}$ of 90
17. $\frac{4}{7}$ of 84	18. $\frac{9}{10}$ of 90	19. $\frac{5}{8}$ of 32	20. $\frac{11}{12}$ of 96

SPM5/U13/280-281

Equivalent Fractions and Decimals

Write a decimal that is equivalent to each of these.

1. $\frac{3}{5}$ 0.6 	2. $\frac{3}{4}$ 	3. $\frac{2}{4}$	4. $\frac{9}{10}$

5. $\frac{2}{5}$	6. $\frac{7}{10}$	7. $4\frac{1}{2}$	8. $6\frac{1}{4}$
9. $8\frac{3}{4}$	10. $10\frac{3}{10}$	11. $9\frac{4}{5}$	12. $2\frac{7}{10}$
13. $1\frac{3}{5}$	14. $\frac{1}{10}$	15. $\frac{1}{4}$	16. $5\frac{1}{5}$
17. $\frac{2}{8}$	18. $2\frac{6}{8}$	19. $4\frac{3}{4}$	20. $2\frac{2}{5}$

NAME

SPM5/U13/282-283

Changing Fractions to Decimals by Dividing

Divide the numerator by the denominator to change each fraction to a decimal. Use as many zeros in the dividend as you need.

1. $\frac{9}{4}$ 2.25 $4\overline{)9.00}$ 8 10 8 20 20 0	2. $\frac{5}{8}$ $8\overline{)5.0}$ 0.6	3. $\frac{38}{5}$	4. $\frac{1}{4}$
5. $\frac{4}{5}$	6. $\frac{7}{8}$	7. $\frac{17}{8}$	8. $\frac{3}{4}$
9. $\frac{25}{10}$	10. $\frac{27}{8}$	11. $\frac{125}{4}$	12. $\frac{22}{5}$
13. $\frac{9}{2}$	14. $\frac{78}{8}$	15. $\frac{63}{10}$	16. $\frac{6}{5}$

SPM5/U13/284-285

Using Decimals to Work with Fractions

Add the fractions. Then add the equivalent decimals. Compare the sums.

1. $2\frac{2}{5}$ 2.4 $4\frac{1}{5}$ 4.2 $6\frac{3}{5}$ 6.6	2. $7\frac{3}{8}$ 7.375 $2\frac{1}{8}$ 2.125	3. $5\frac{1}{4}$ $3\frac{3}{4}$	4. $6\frac{3}{10}$ $3\frac{9}{10}$	5. $10\frac{5}{8}$ $2\frac{5}{8}$
6. $3\frac{1}{2}$ $6\frac{1}{2}$	7. $5\frac{7}{8}$ $1\frac{5}{8}$	8. $6\frac{3}{4}$ $2\frac{3}{4}$	9. $12\frac{2}{5}$ $4\frac{3}{5}$	10. $8\frac{7}{10}$ $1\frac{5}{10}$

Subtract the fractions. Then subtract the equivalent decimals. Compare the differences.

11. $6\frac{2}{5}$ $4\frac{4}{5}$	12. $4\frac{1}{4}$ $2\frac{3}{4}$	13. 7 $4\frac{3}{5}$	14. $9\frac{3}{8}$ $6\frac{5}{8}$	15. 5 $3\frac{1}{2}$

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 27.76 \\ 9.07 \\ +\ 5.34 \\ \hline \end{array}$

2. $\begin{array}{r} 5.83 \\ \times 100 \\ \hline \end{array}$

3. $6\overline{)16.5}$

4. $\begin{array}{r} 5\frac{3}{8} \\ -1\frac{5}{8} \\ \hline \end{array}$

5. $21\overline{)98.28}$

6. $\begin{array}{r} \$24.19 \\ -\ 6.83 \\ \hline \end{array}$

7. $\begin{array}{r} 3\frac{1}{7} \\ +\ 5\frac{3}{7} \\ \hline \end{array}$

8. $\begin{array}{r} 6.8 \\ \times 7.3 \\ \hline \end{array}$

9. $7\overline{)1505}$

10. $\begin{array}{r} 9.031 \\ -8.218 \\ \hline \end{array}$

11. $17 \times 38 \times 46$

12. 1000×5.147

13. $\$86.42 - \$17.87$

14. $6\frac{1}{5} + 3\frac{3}{5}$

15. $38 + 441 + 1906$

16. $77.4 \div 18$

Solve. Show your work.

17. The practice rink is about 26 m by 61 m. How many square metres of ice is this?

18. Jud paid $40.50 for 6 poles to support a fence. What did each one cost?

19. Trish had $2\frac{1}{4}$ cans of paint. She used $\frac{3}{4}$ of a can when she painted the wagon. How much paint did she have left?

20. Canada's greatest distance east-to-west is 5189 km. The greatest distance north-to-south is 4629 km. How much less is this?

21. Canada has 23 810 km of coast on the Atlantic Ocean, 52 410 km on the Arctic Ocean, 10 890 km on James and Hudson Bays, and 8952 km on the Pacific Ocean. Altogether, how many kilometres of coastline does this make?

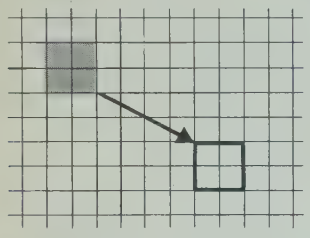
22. Mrs. Hope's garden is 7 m by 13 m in a rectangular shape. She is going to fence it in with fence that costs $3.25/m. How much will this cost?

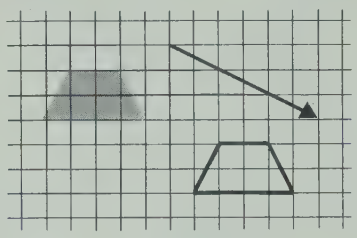
NAME

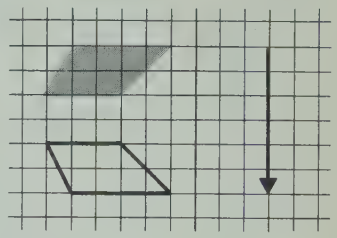
SPM5/U14/288-289

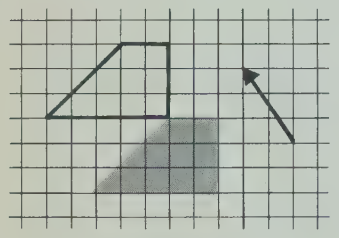
Slides

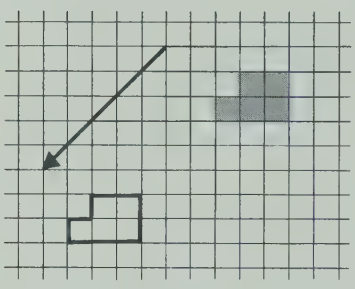
Use tracing paper to test whether the white shape
is the slide image of the gray shape for the slide arrow shown.

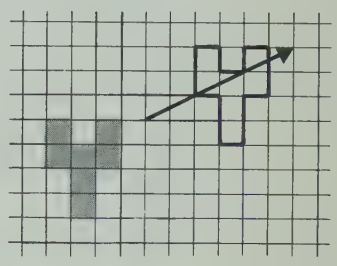
1. 
White shape is too far! no

2. 

3. 

4. 

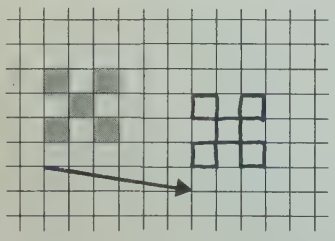
5. 

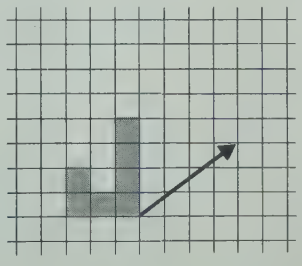
6. 

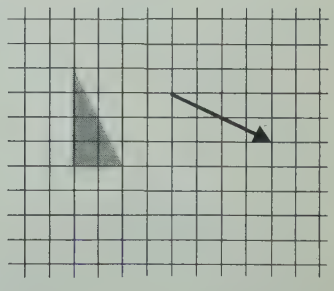
SPM5/U14/290-291

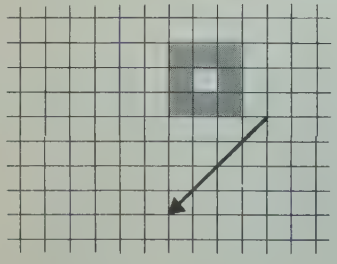
Drawing Slide Images

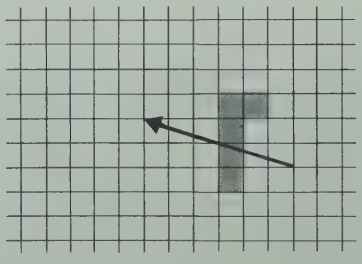
Use tracing paper to help you draw the slide image
of the given shape for the slide arrow shown.

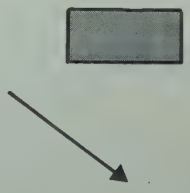
1. 

2. 

3. 

4. 

5. 

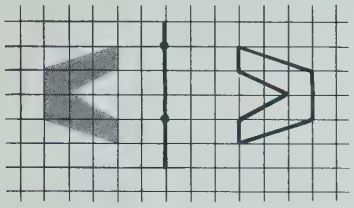
6. 

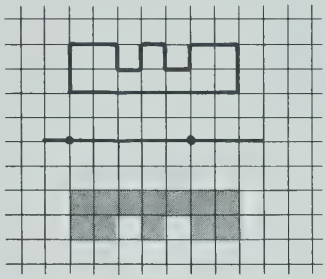
NAME

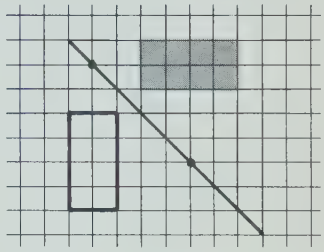
SPM5/U14/292-293

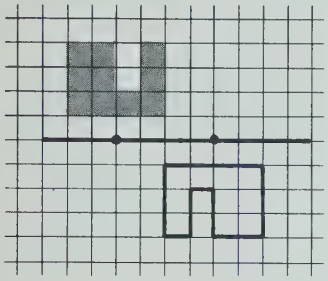
Flips

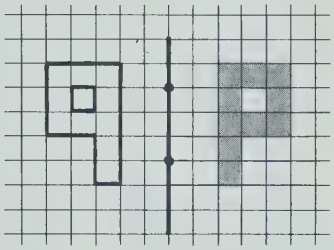
Use tracing paper to test whether the white shape is the flip image of the gray shape for the flip line shown.

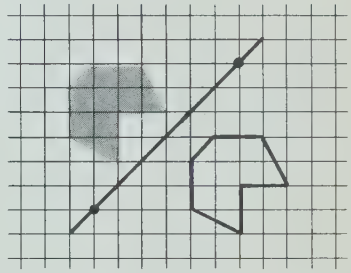
1. 

2. 

3. 

4. 

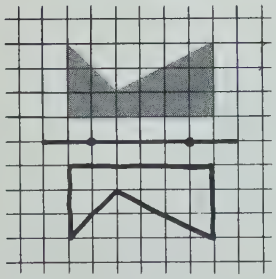
5. 

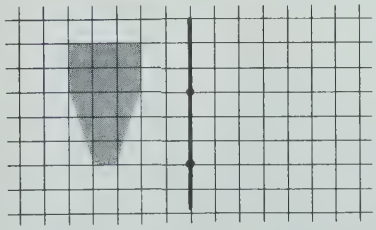
6. 

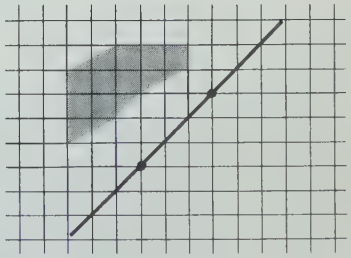
SPM5/U14/294-295

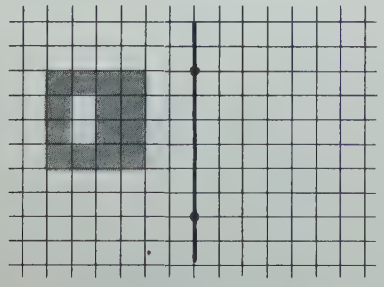
Drawing Flip Images

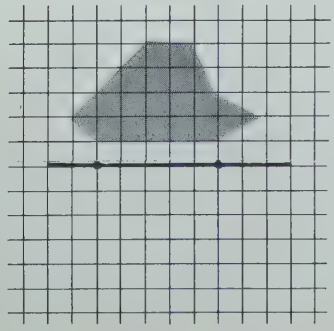
Use tracing paper to help you draw the flip image of the given shape for the flip line shown.

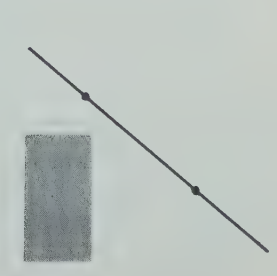
1. 

2. 

3. 

4. 

5. 

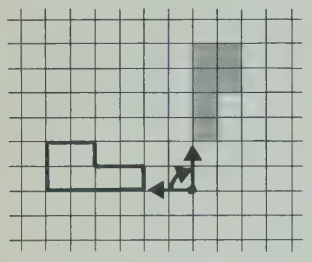
6. 

NAME

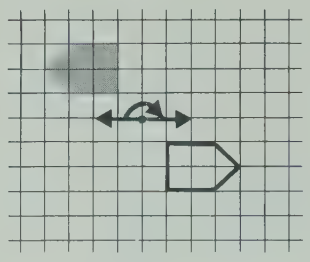
SPM5/U14/296-297

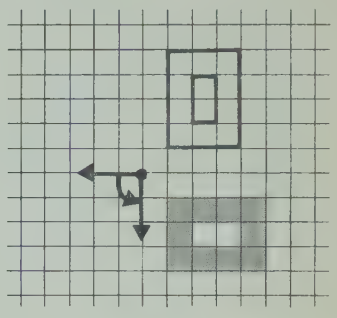
Turns

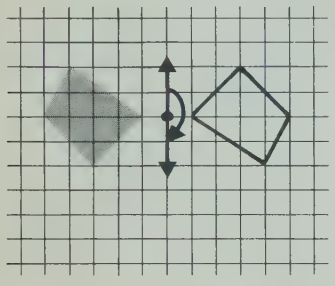
Use tracing paper to test whether the white shape
is the turn image of the gray shape for the turn angle shown.

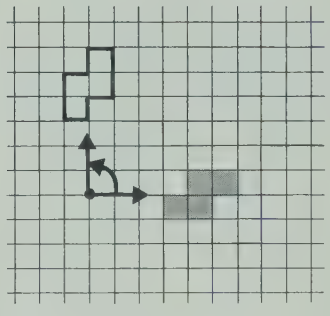
1. 

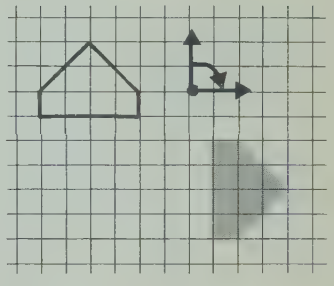
no

2. 

3. 

4. 

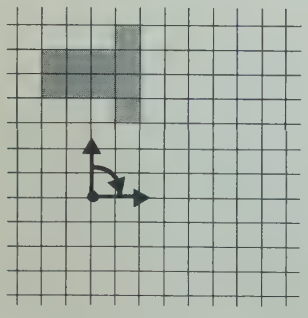
5. 

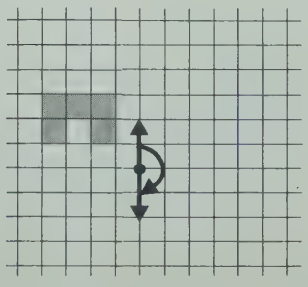
6. 

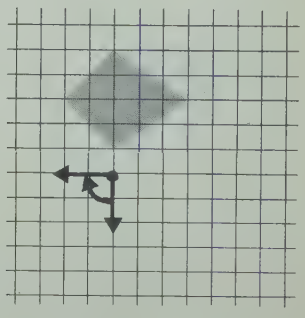
SPM5/U14/298-299

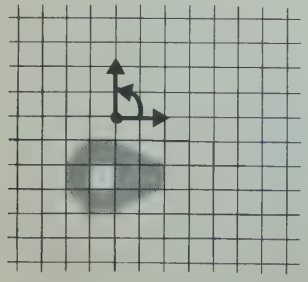
Drawing Turn Images

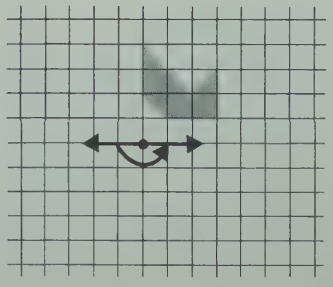
Use tracing paper to help you draw the turn image
of the given shape for the turn angle shown.

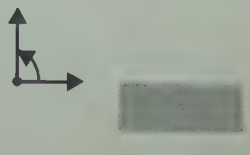
1. 

2. 

3. 

4. 

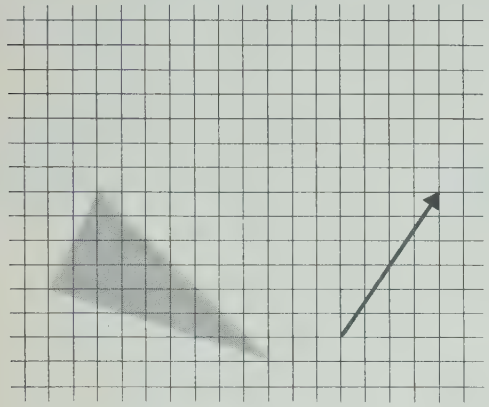
5. 

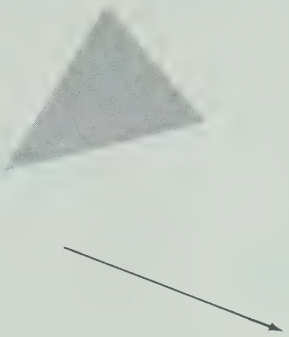
6. 

NAME

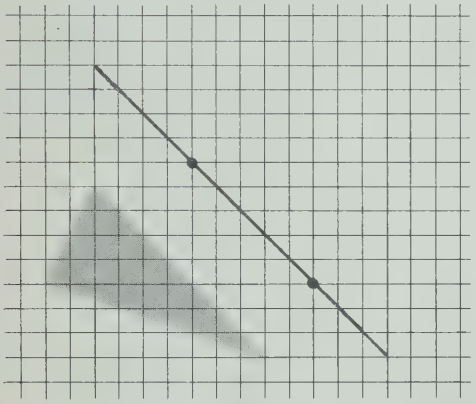
Practice

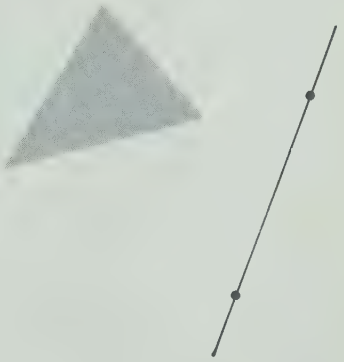
Use tracing paper to help you draw the slide image.

1. 

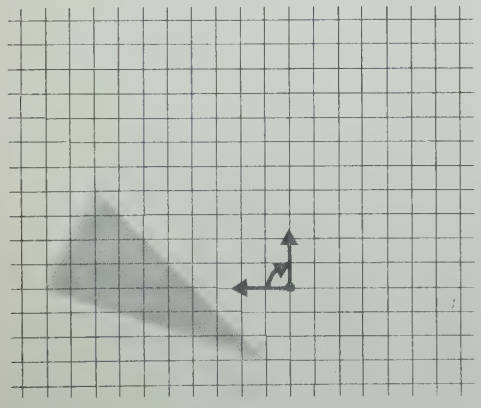
2. 

Use tracing paper to help you draw the flip image.

3. 

4. 

Use tracing paper to help you draw the turn image.

5. 

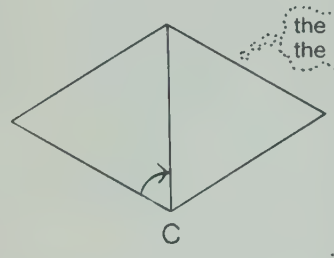
6.

Building Polygons from Triangles

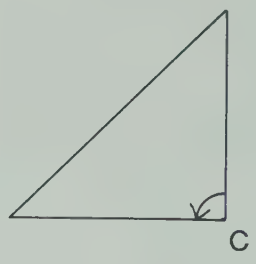
Use as many turns as needed to build a polygon.
Use C as the turn centre for the turn angle.

You may wish to use cutouts or tracing paper.

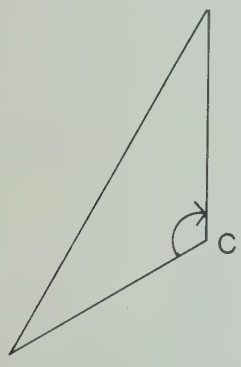
1.



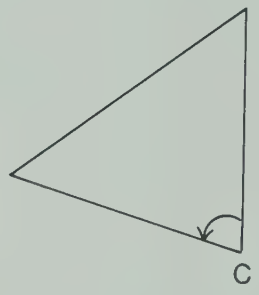
2.



3.



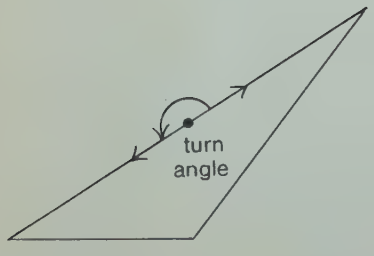
4.



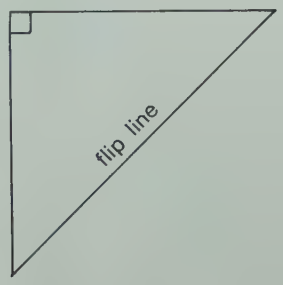
5. Name each polygon you drew for Exercises 1-4.

Draw the suggested flip or turn image. Name the polygon that results.

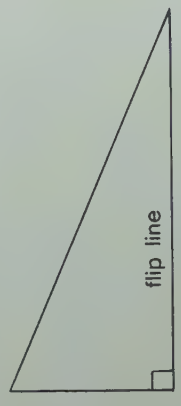
6.



7.



8.

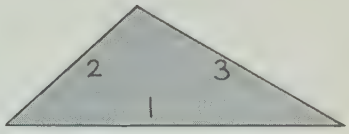


NAME

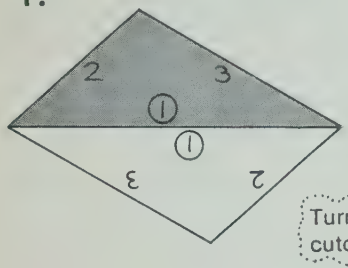
SPM5/U14/304-305

Sharing Congruent Sides

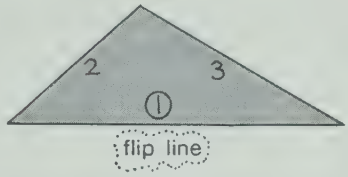
Make a cardboard cutout of the shape.
Draw six different shapes by placing congruent sides together.



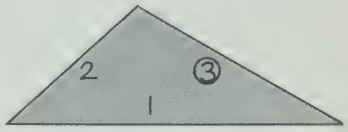
1.



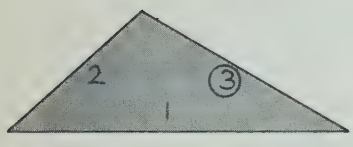
2.



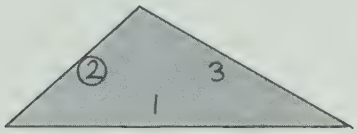
3.



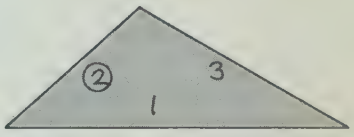
4.



5.



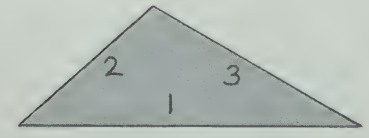
6.



SPM5/U14/306-307

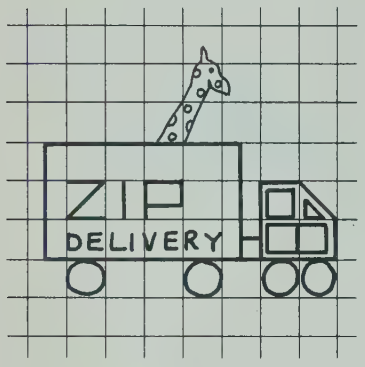
Tiling with Congruent Shapes

Use the cutout of the shape above to make a pattern
by placing congruent sides together. Show a pattern without spaces.

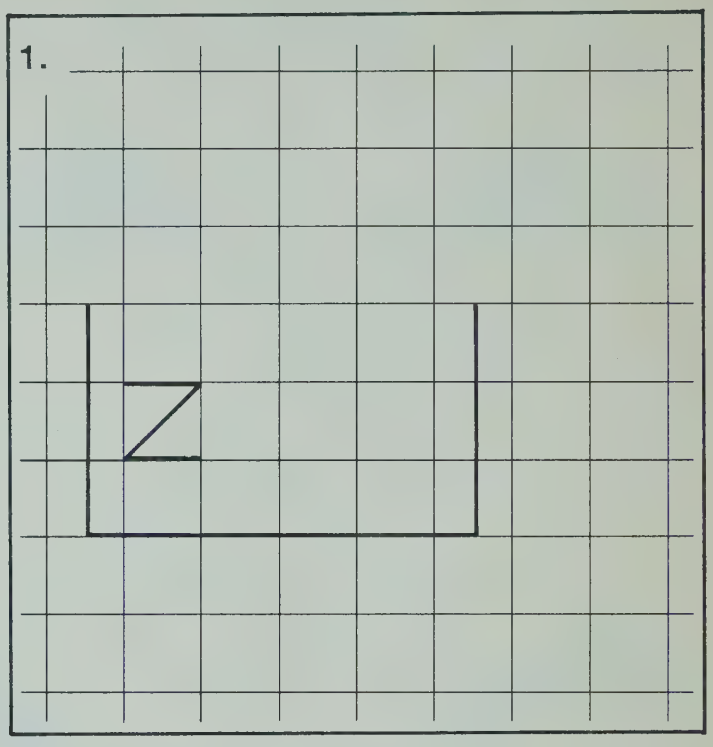


Copying Pictures Using Grids

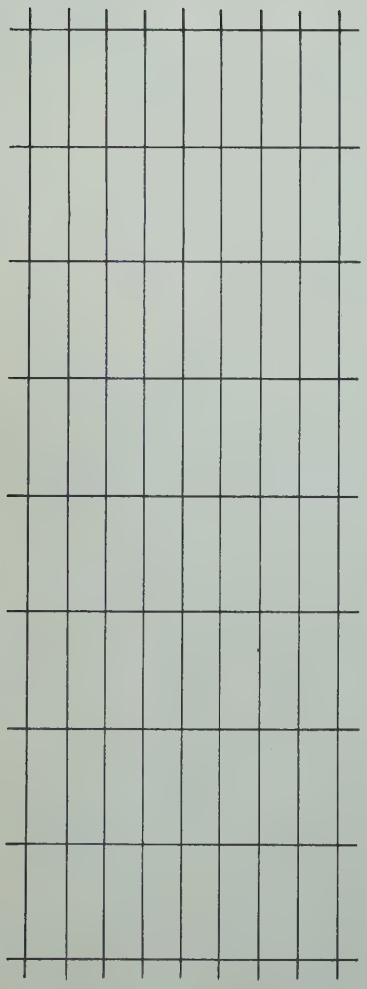
Copy the picture on each grid.



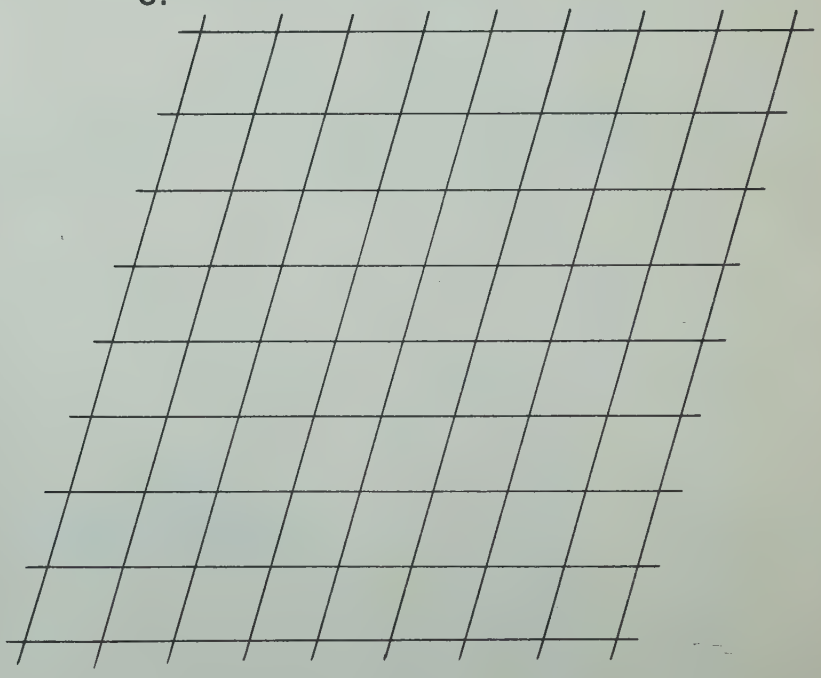
1.



2.



3.



NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} \$21.75 \\ +\ 19.46 \\ \hline \end{array}$

2. $\begin{array}{r} 7.3 \\ \times 5.9 \\ \hline \end{array}$

3. $16\overline{)116.8}$

4. $\begin{array}{r} 400 \\ \times\ 18 \\ \hline \end{array}$

5. $\begin{array}{r} 7\frac{1}{8} \\ -3\frac{3}{8} \\ \hline \end{array}$

6. $\begin{array}{r} 17.013 \\ -\ 8.916 \\ \hline \end{array}$

7. $\begin{array}{r} 531 \\ \times 209 \\ \hline \end{array}$

8. $6\overline{)13.5}$

9. $\begin{array}{r} 52\,381 \\ 107\,486 \\ +\ 9\,302 \\ \hline \end{array}$

10. $\begin{array}{r} 5\frac{3}{7} \\ +\ 2\frac{4}{7} \\ \hline \end{array}$

11. $4281 \div 16$

12. $19 \times 231 \times 7$

13. $4.865 + 7.912$

14. $6\frac{5}{9} - 2\frac{1}{9}$

15. 8.914×7

16. $42.63 \div 7$

Solve. Show your work.

17. Kit went deep-sea fishing. He caught three cod. The first had a mass of 2.4 kg, the second 2.9 kg, and the third 3.7 kg. What was the average mass of the cod?

18. Banff National Park in Alberta contains 6 646 km^2. Jasper Park adjoins it and contains 10 877 km^2. Together, how many square kilometres do they cover?

19. Jacques Cartier discovered the Gulf of St. Lawrence in 1534. The St. Lawrence Seaway was completed in 1959. Between the discovery and the Seaway's completion, how many years passed?

20. The Welland Ship Canal takes ships between Lake Erie and Lake Ontario. The difference in elevation is about 99.2 m. There are 8 locks. If each lock raised a ship an equal amount, how much would this be?

21. The scholarship-fund drive raised $5283 this year. Last year it raised only $4721. How much was the increase this year?

22. Luigi stacked up 36 boards. Each board was 1.91 cm thick. How high was the stack?

NAME _____

SPM5/U15/316-317

Writing Ratios

Write each as a ratio in two other ways.

1. 3 to 5 3:5 $\frac{3}{5}$	2. 6 to 14	3. 12 to 6
4. 7 runners out of 30 7 of 30, 7:30 $\frac{7}{30}$	5. 5 losses in 15 games 5 of 15,	6. 16 girls and 19 boys 16 to 19,
7. 5 to 9	8. $\frac{25}{13}$	9. $\frac{18}{100}$
10. 8 to 12	11. $\frac{24}{120}$	12. 60 to 10
13. 5 wins in 11 games 5 of 11,	14. 5 wins and 6 losses 5 to 6,	15. sell 9 of the 24 cars 9 of 24,
16. 12 dogs and 9 cats 12 to 9,	17. 32 of 50 players 32 of 50,	18. 45 students and 3 teachers 45 to 3,

SPM5/U15/318-319

Writing Equivalent Ratios

Complete. Use patterns or multiplication.

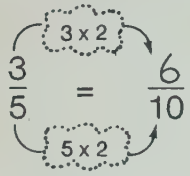
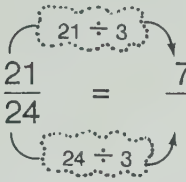
1. $\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24} = \frac{25}{30}$ (5×2, 5×3, 5×4, 5×5; 6×2, 6×3, 6×4, 6×5)	2. $\frac{7}{8} = \frac{14}{16} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$ (7×2, 7×3, 7×4, 7×5; 8×2, 8×3, 8×4, 8×5)
3. $\frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$	4. $\frac{4}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
5. $\frac{3}{2} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$	6. $\frac{2}{7} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
7. $\frac{5}{8} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$	8. $\frac{4}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
9. $\frac{8}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$	10. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{21}{15} = \frac{28}{20} = \frac{\quad}{\quad}$
11. $\frac{\quad}{\quad} = \frac{4}{18} = \frac{6}{27} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$	12. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{24}{20} = \frac{30}{25}$

NAME

SPM5/U15/320-321

Finding the Missing Term in Equivalent Ratios

Complete.

1.  $\frac{3}{5} = \frac{6}{10}$	2.  $\frac{21}{24} = \frac{7}{__}$	3. $\frac{4}{1} = \frac{__}{5}$	4. $\frac{10}{25} = \frac{2}{__}$

5. $\frac{3}{4} = \frac{27}{__}$	6. $\frac{4}{3} = \frac{__}{30}$	7. $\frac{18}{3} = \frac{6}{__}$	8. $\frac{8}{10} = \frac{__}{5}$
9. $\frac{4}{24} = \frac{__}{6}$	10. $\frac{1}{2} = \frac{__}{12}$	11. $\frac{15}{12} = \frac{__}{4}$	12. $\frac{1}{3} = \frac{9}{__}$
13. $\frac{3}{8} = \frac{9}{__}$	14. $\frac{32}{20} = \frac{8}{__}$	15. $\frac{3}{2} = \frac{__}{10}$	16. $\frac{15}{18} = \frac{__}{6}$

SPM5/U15/322-323

Finding the Missing Term Using Cross Products

Complete.

1. $\frac{9}{12} = \frac{6}{8}$ $12 \times ? = 9 \times 8$ $12 \times ? = 72$ $12 \times 6 = 72$	2. $\frac{8}{12} = \frac{10}{__}$ $8 \times ? = 12 \times 10$ $8 \times ? = 120$	3. $\frac{15}{18} = \frac{10}{__}$	4. $\frac{24}{6} = \frac{__}{7}$

5. $\frac{6}{18} = \frac{4}{__}$	6. $\frac{10}{5} = \frac{__}{3}$	7. $\frac{12}{21} = \frac{__}{14}$	8. $\frac{14}{10} = \frac{49}{__}$
9. $\frac{15}{10} = \frac{__}{6}$	10. $\frac{3}{12} = \frac{__}{20}$	11. $\frac{15}{24} = \frac{20}{__}$	12. $\frac{21}{27} = \frac{70}{__}$
13. $\frac{22}{16} = \frac{55}{__}$	14. $\frac{12}{20} = \frac{15}{__}$	15. $\frac{15}{9} = \frac{25}{__}$	16. $\frac{8}{36} = \frac{__}{45}$

NAME _____

Practice

Write each ratio in two other ways.

1. 4 out of 7
2. 10 to 3
3. 5 to 12
4. 13 to 100
5. 15:2
6. 3 out of 13

Write as a ratio in three ways.

7. trading 5; keeping 8
8. racing 26 horses out of 40 horses
9. 13 goals in 15 shots
10. swimming 11 laps out of 20
11. winning 85 games, losing 40
12. reading 10 out of 18 books

Complete. Use patterns or multiplication.

13. $\frac{1}{6} = \frac{2}{12} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
14. $\frac{2}{2} = \frac{4}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
15. $\frac{6}{5} = \frac{\quad}{\quad} = \frac{18}{15} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$
16. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{12}{28} = \frac{15}{35}$
17. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{18}{15} = \frac{24}{20} = \frac{\quad}{\quad}$
18. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{10}{45}$

Complete.

19. $\frac{10}{3} = \frac{40}{\quad}$
20. $\frac{25}{40} = \frac{\quad}{8}$
21. $\frac{7}{42} = \frac{1}{\quad}$
22. $\frac{8}{5} = \frac{\quad}{15}$
23. $\frac{26}{42} = \frac{\quad}{21}$
24. $\frac{75}{21} = \frac{25}{\quad}$
25. $\frac{26}{39} = \frac{\quad}{3}$
26. $\frac{5}{9} = \frac{20}{\quad}$
27. $\frac{8}{10} = \frac{\quad}{15}$
28. $\frac{21}{18} = \frac{14}{\quad}$
29. $\frac{6}{8} = \frac{15}{\quad}$
30. $\frac{4}{14} = \frac{\quad}{21}$
31. $\frac{18}{12} = \frac{\quad}{14}$
32. $\frac{60}{12} = \frac{25}{\quad}$
33. $\frac{100}{150} = \frac{12}{\quad}$
34. $\frac{10}{8} = \frac{\quad}{20}$

NAME

SPM5/U15/324-325

Writing Equivalent Rates

Complete. Use patterns or multiplication.

1. $\frac{30}{1} = \frac{60}{2} = \frac{90}{3} = \frac{120}{4} = \frac{150}{5}$ (30×2, 30×3, 30×4, 30×5 / 1×2, 1×3, 1×4, 1×5)

2. $\frac{2}{3} = \frac{4}{6} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$ (2×2, 2×3, 2×4, 2×5 / 3×2, 3×3, 3×4, 3×5)

3. $\frac{5}{2} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4. $\frac{9}{5} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5. $\frac{4}{1} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

6. $\frac{1}{2} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $\frac{3}{5} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $\frac{18}{1} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $\frac{\quad}{\quad} = \frac{2}{8} = \frac{\quad}{\quad} = \frac{4}{16} = \frac{\quad}{\quad}$

10. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{12}{32} = \frac{15}{40}$

11. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{60}{3} = \frac{80}{4} = \frac{\quad}{\quad}$

12. $\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{15}{18} = \frac{\quad}{\quad} = \frac{25}{30}$

SPM5/U15/326

Finding the Missing Term in Equivalent Rates

Complete.

1. $\frac{14}{16} = \frac{7}{8}$ (14 ÷ 2, 16 ÷ 2)

2. $\frac{2}{5} = \frac{6}{\quad}$ (2 × 3, 5 × 3)

3. $\frac{3}{4} = \frac{\quad}{28}$

4. $\frac{42}{14} = \frac{3}{\quad}$

5. $\frac{12}{18} = \frac{2}{\quad}$

6. $\frac{1}{3} = \frac{\quad}{9}$

7. $\frac{6}{4} = \frac{3}{\quad}$

8. $\frac{7}{4} = \frac{\quad}{16}$

9. $\frac{2}{5} = \frac{10}{\quad}$

10. $\frac{9}{12} = \frac{3}{\quad}$

11. $\frac{5}{1} = \frac{\quad}{3}$

12. $\frac{4}{12} = \frac{1}{\quad}$

13. $\frac{49}{35} = \frac{\quad}{5}$

14. $\frac{1}{6} = \frac{7}{\quad}$

15. $\frac{2}{3} = \frac{18}{\quad}$

16. $\frac{45}{72} = \frac{\quad}{8}$

17. $\frac{3}{8} = \frac{24}{\quad}$

18. $\frac{32}{24} = \frac{\quad}{3}$

19. $\frac{30}{48} = \frac{5}{\quad}$

20. $\frac{36}{45} = \frac{\quad}{5}$

NAME

SPM5/U15/327

Finding the Missing Term Using Cross Products

Complete.

1. $\frac{10}{4} = \frac{25}{10}$ $4 \times ? = 10 \times 10$ $4 \times ? = 100$ $4 \times 25 = 100$	2. $\frac{4}{8} = \frac{5}{__}$ $4 \times ? = 8 \times 5$ $4 \times ? = 40$	3. $\frac{6}{9} = \frac{__}{15}$	4. $\frac{12}{18} = \frac{8}{__}$
5. $\frac{4}{12} = \frac{5}{__}$	6. $\frac{6}{8} = \frac{__}{20}$	7. $\frac{20}{4} = \frac{15}{__}$	8. $\frac{15}{18} = \frac{__}{42}$
9. $\frac{35}{63} = \frac{__}{18}$	10. $\frac{12}{30} = \frac{__}{45}$	11. $\frac{21}{56} = \frac{6}{__}$	12. $\frac{12}{27} = \frac{16}{__}$
13. $\frac{15}{27} = \frac{__}{36}$	14. $\frac{18}{63} = \frac{4}{__}$	15. $\frac{6}{24} = \frac{__}{16}$	16. $\frac{42}{36} = \frac{18}{__}$

SPM5/U15/328-329

Writing Percents

Write each of these as a percent.

1. 56:100 56% $\frac{56}{100}$	2. 0.72 $\frac{72}{100}$	3. $\frac{48}{100}$	4. $\frac{1}{4}$
5. 94:100	6. $\frac{15}{100}$	7. 0.33	8. $\frac{1}{10}$
9. 3:5	10. 8:100	11. 0.07	12. $\frac{1}{2}$
13. 0.3	14. $\frac{9}{10}$	15. $\frac{2}{5}$	16. 6:10
17. $\frac{3}{4}$	18. 0.8	19. $\frac{50}{100}$	20. 0.67

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} \$9.46 \\ -\ 7.58 \\ \hline \end{array}$

2. $\begin{array}{r} 508 \\ \times\ 79 \\ \hline \end{array}$

3. $\begin{array}{r} 2739 \\ 681 \\ +\ 4075 \\ \hline \end{array}$

4. $\begin{array}{r} 7\frac{1}{5} \\ +\ 2\frac{3}{5} \\ \hline \end{array}$

5. $26\overline{)5317}$

6. $5\overline{)2}$

7. $\begin{array}{r} 4.071 \\ +\ 2.983 \\ \hline \end{array}$

8. $\begin{array}{r} 4006 \\ -1278 \\ \hline \end{array}$

9. $\begin{array}{r} \$46.55 \\ \times\ 57 \\ \hline \end{array}$

10. $36\overline{)\$27}$

11. 86 778 ÷ 27

12. 43 x 21 x 9

13. 4.739 + 0.861

14. 5 x 3.409

15. 77 043 − 2 986

16. 8.582 ÷ 14

Solve. Show your work.

17. Potatoes cost $0.79/kg at a store. If we buy 8 kg, how much will they cost?

18. Sir John A. Macdonald was born in 1815 and died in 1891. How old was he at his death?

19. At the concert the 3 musical pieces lasted 28 min, 14 min, and 21 min. What was the average length of each piece?

20. Sylvia bought a large wheel of Brie cheese. It had a mass of 3 kg and cost $22.17. How much did each kilogram cost?

21. Sarah plans to arrange 96 jars of jelly on the store counter in 8 rows. She wants an equal number of jars in each row. How many will go in each row?

22. Canada has a shoreline on the Great Lakes of 7562 km and a coastline on the oceans of 96 069 km. What is the total of these two?

NAME _____

Checking Up -- Multiplication and Division

Perform the indicated operation.

1. $\begin{array}{r} 38 \\ \times\ 3 \\ \hline \end{array}$

2. $3\overline{)204}$

3. $\begin{array}{r} 953 \\ \times\ 5 \\ \hline \end{array}$

4. $8\overline{)365}$

5. $\begin{array}{r} 70.4 \\ \times\ 6 \\ \hline \end{array}$

6. $8\overline{)3184}$

7. $\begin{array}{r} 73 \\ \times 49 \\ \hline \end{array}$

8. $5\overline{)248.5}$

9. $\begin{array}{r} 9.3 \\ \times 2.6 \\ \hline \end{array}$

10. $47\overline{)3854}$

11. 7.5 x 27.4

12. 157.5 ÷ 6

13. 8 x $30.78

14. $25.56 ÷ 9

15. 658 x 279

16. 17 806 ÷ 58

Solve. Show your work.

17. Mort wrapped 6 apples in each tray. He had 830 apples. How many trays did he fill?

18. Faith cut 196 pieces of cord. Each cord is 3.8 m long. How much cord did she use in all?

19. The field has 85 rows of cabbages. There are 46 cabbages in each row. How many cabbages are in the field?

20. The Director has $63 750 to spend on the 15 projects. What is the average amount of money that can be spent on each project?

NAME _____

Checking Up -- Computation

Perform the indicated operation.

1. 792×3

2. $412 - 315$

3. $1698 + 3862$

4. $7\overline{)588}$

5. 498×60

6. $5\overline{)3235}$

7. $256.4 + 673.9$

8. 86×79

9. $8\overline{)314.8}$

10. $3.365 - 0.486$

11. 47.5×8.4

12. $46\overline{)2944}$

13. $6000 - 4258$

14. $\$59.87 + 48.79$

15. $7\overline{)5649}$

16. 0.8×0.7

17. $5\frac{4}{7} + 4\frac{5}{7}$

18. $\$40.54 - \$31.57$

19. $4752.3 \div 7$

20. 205×384

21. $6\frac{2}{5} - 3\frac{4}{5}$

22. $38 \times \$6.85$

23. $\$4022.10 \div 82$

24. $9.87 + 14.36 + 0.82$

Solve. Show your work.

25. Tickets cost $5.75 each. Mr. Bauderbuck bought 24. How much did he pay?

26. Trish needs 25 000 points. At present, she has 18 455. How many more must she get?

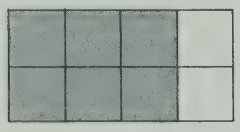
27. Repairs cost $58.13. Labor cost $18.75. Gasoline cost $15.50. What was the total bill at the service station?

28. The 1036 new cars were divided equally among 7 dealers. How many did each dealer receive?

NAME _____

Checking Up -- Decimals and Fractions

Write two equivalent fractions for each picture.

1. 

2.

3.

Write each fraction as a decimal.

4. $\frac{4}{10}$ 5. $\frac{3}{4}$ 6. $\frac{7}{2}$ 7. $\frac{12}{5}$

Write each decimal as a fraction in simplest form.

8. 0.3 9. 0.25 10. 0.6 11. 0.50

Write each improper fraction as a number in mixed form.

12. $\frac{35}{8}$ 13. $\frac{17}{4}$ 14. $\frac{29}{9}$ 15. $\frac{9}{2}$

Write each number in mixed form as an improper fraction.

16. $6\frac{1}{2}$ 17. $7\frac{2}{3}$ 18. $3\frac{1}{4}$ 19. $5\frac{4}{5}$

Use $>$, $<$, or $=$ to make a true statement.

20. $\frac{3}{5}$ ___ $\frac{4}{7}$ 21. $\frac{2}{3}$ ___ $\frac{4}{6}$ 22. $\frac{2}{7}$ ___ $\frac{1}{6}$

23. 3.1 ___ 3.02 24. 0.16 ___ 0.106 25. 4.3 ___ 4.30

List from least to greatest.

26. 2.09, 2.19, 2.109, 2.019, 2.1, 2.11

27. 0.06, 0.6, 0.606, 0.006, 0.66, 0.066

Round to the

28. nearest tenth. 3.418 29. nearest hundredth. 0.205

Find the missing term.

30. $\frac{3}{7} = \frac{\quad}{42}$ 31. $\frac{2}{5} = \frac{10}{\quad}$ 32. $\frac{4}{6} = \frac{6}{\quad}$ 33. $\frac{27}{36} = \frac{\quad}{8}$

Find

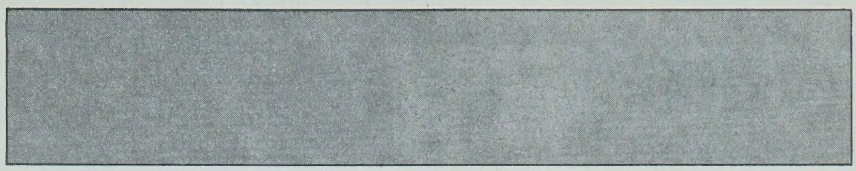
34. $\frac{1}{6}$ of 42. 35. $\frac{3}{7}$ of 49. 36. $\frac{4}{9}$ of 36. 37. $\frac{2}{5}$ of 30.

NAME

Checking Up -- Measurement and Graphing

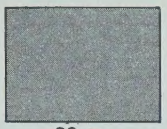
Use a centimetre ruler.
Measure to find

1. the perimeter.
2. the area.



For the rectangle shown,

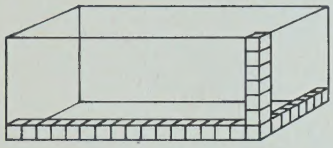
3. find the perimeter.
4. find the area.



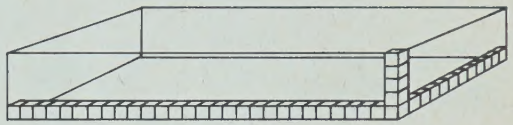
5. find the perimeter
6. find the area.

Each small cube represents a cubic centimetre.
Give the volume of each rectangular prism in cubic centimetres.

7.



8.

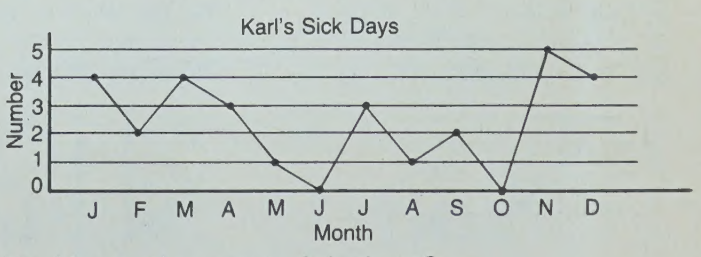


Complete.

9. 170 cm = _____ m
10. 2000 mL = _____ L
11. 4.32 m = _____ mm
12. 0.6 kg = _____ g
13. 900 mm = _____ m
14. 53 mm = _____ cm
15. 620 cm^3 take the same space as _____ mL.
16. 5.9 L take the same space as _____ cm^3.
17. The mass of 7.2 L of water is _____ kg.
18. The mass of _____ mL of water is 1600 g.

Use the line graph.

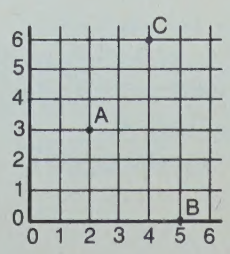
19. During which month(s) did Karl have the most sick days?
20. During which month(s) did Karl have the fewest sick days?



21. During which 3 months in a row did Karl have the most sick days?

Name each point with an ordered pair of numbers.

22. A
23. B
24. C



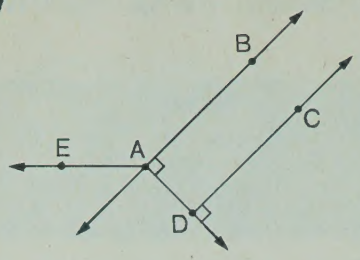
Plot each point.

25. D(3, 1)
26. E(0, 4)
27. F(6, 5)

NAME _____

Checking Up -- Geometry

For the picture, name



1. a line and line segment that are perpendicular.

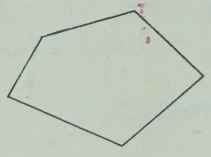
2. a line and a ray that are parallel.

3. an obtuse angle.

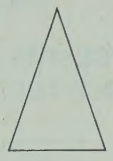
4. two congruent angles.

Name

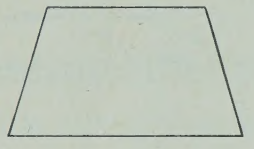
5. the kind of polygon.



6. the kind of triangle.



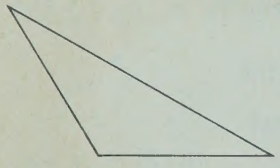
7. the kind of quadrilateral.



8. the kind of solid.

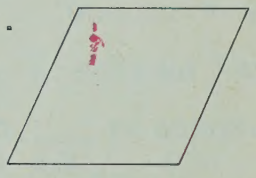
Does the shape have line symmetry? If so, draw the line(s) of symmetry.

9.



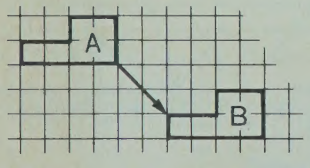
10.

11.

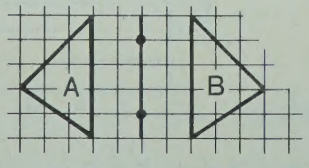


Use tracing paper.

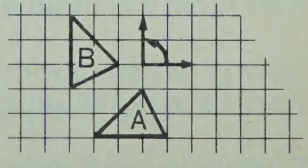
12. Test whether shape A is a slide image of shape B for the slide arrow shown.



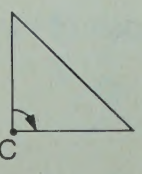
13. Test whether shape A is a flip image of shape B for the flip line shown.



14. Test whether shape A is a turn image of shape B for the turn angle shown.



15. When you turn this triangle about point C to build a polygon, is the result another triangle, a square, a pentagon, a hexagon, or an octagon?



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